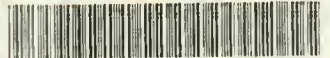


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THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

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ton, secretary; H. B. BEATTY, Oil City, Pa., treasurer.
The twelfth annual meeting will be held at Cleve-
land, O., August, 1896.

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NORTHAMPTON, MASS.—The Northampton Horticultural Society held its annual meeting on January 16. Officers were elected as follows: President, E. P. Copeland; vice-presidents, Edward J. Canning, Mrs. Mann, Mr. Allen; secretary, E. J. Canning; treasurer, James King; botanist to the society, W. F. Ganong, Ph. D.

KENNETT SQUARE, PA.—The greenhouse of C. S. Swayne was slightly injured by fire the morning of January 24. Considerable damage to plants, but damage to buildings was slight. Wm. Swayne also recently had a fire. His potting shed and office and 30 feet of one house and portion of another small house were destroyed. Considerable damage to growing stock. Loss \$500, covered by insurance.



A Carnation Discussion.
Following we give the substance of the discussion at the recent carnation meeting of the Chicago Florist Club:

GROWING HIGH GRADE BLOOMS.
MR. E. G. HILL (Richmond, Ind.):—It is a broad question and it is a question that involves a great many considerations. Of course we will all admit in the first place that we must have varieties that measure up in size and that have texture and stem in order to get high grade blooms, and happily for the florist and carnation specialist there are quite a number of varieties on the market that can be made to produce blooms that will bring large sized flowers and also a remunerative price for producing them. Another question is the progress of the evolution of the carnation: Some of the largest varieties are true and some are not true. In my estimation the variety Wm. Scott produces more good sized blooms perhaps than any other variety, and not only good sized blooms but in large quantities, and that is the type of carnation we are looking for. I think that unless a new variety measures up appreciably to the Scott type it ought not to be sent out. On the other hand I have seen a great many poor Scotts, washy flowers with streaks of white through them, but this is the result of indifferent culture or something lacking in the soil. It is very essential with a new variety that the root action of the plant is perfect in order to get a good sized flower. A great many florists make their mistake in the condition of the soil or in the conditions surrounding the varieties. I have noticed with Wm. Scott that when the root action is perfect the result is perfect flowers. In other cases where such action is not perfect the result is a white tinge in the flower and watery substance, which means that something is the matter with the root. When we find that a plant is not producing a normal crop of flowers some of us resort to top dressing, overfeeding, etc., which is indeed a very serious mistake. You err in overfeeding plants not producing a normal crop of blooms. I have noticed that the variety Bridesmaid, when grown in suitable soil, produces most magnificent flowers, while on the other hand plants not having suitable soil show inferior blooms, lack of color, etc. There is so much mystery in this soil question. Much study and experiment should be

given to it, because I believe the soil is necessary for proper root action and unless we get root action that will bring fine healthy growth we need not expect to have fine healthy flowers. Last spring I had my plants in clay loam. I followed Mr. Dorner's idea in order to do the thing up a little nicer and made my soil light; in this I made a serious mistake, because the varieties do not have the strength of stem nor texture as when grown in the style of last year, which was a stiff heavy loam.

MR. ALBERT HERR (Lancaster, Pa.)—I believe with Mr. Hill in the theory of stiff soil. I grow all varieties in this way and with good success.

MR. J. G. HANCOCK (Grand Haven, Mich.)—I think that Mr. Hill has hit the keynote on the soil question. There is one thing sure, we have got to have the right kind of soil in order to grow high grade blooms. I do not agree with Mr. Hill or Mr. Herr that it is necessary to have a heavy soil. Our soil has not a particle of clay in it, but all plant life requires certain elements to feed upon. The plant has to take substance from the soil in order to make good stem and flower, and we have also got to have varieties suited to our particular soil. As I am situated I can't go elsewhere to get heavy soil. You gentlemen that have heavy soil take varieties adapted to it. The idea is to experiment and see what you can do with your own advantages and to try in a measure to overcome your disadvantages by application of fertilizers, etc., and when you find out what you succeed in stick to it.

AUG. DRESEL (Chicago).—Do you not think, gentlemen, that by investing in these new varieties, in cultivating and overcultivating these things, we cultivate disease? I do not take any stock in the taking up of all the new varieties. I grow only four or five varieties, Daybreak, McGowan, Tidal Wave, Scott, Albertini and perhaps a few others. These are perfectly healthy and I never had rust on them.

THE CHAIRMAN.—The varieties Mr. Dresel names are none of them very old. He must have been investing in new varieties within a very few years.

ENTIRE GROWTH UNDER GLASS.
MR. HILL.—A number of my friends have tried growing under glass all summer. Mr. Lonsdale has grown carnations under glass for the past three years and he makes the claim that where plants are infested with disease, rust or bacteria they are in a large measure exempt from those troubles when grown under glass during the summer. I have tried it this summer. Tried it with one variety in particular, which is somewhat subject to rust, and there is a very minimum of rust on that variety, which does take it when grown out of doors. Under glass the result is a tougher skin on the leaf and stem

and as a result it resists the fungus. I am inclined to think that there is considerable advantage to be derived on that particular line. With me the results were very gratifying indeed. I find the growth is somewhat stronger and the plant is more vigorous under glass during the summer than plants lifted and taken in from outside. Mr. Lonsdale grew Buttercup to perfection that way. I was amazed to find them so strong, vigorous and healthy. Mr. Dorner tried growing his carnations on the benches last summer and was not satisfied, and he will not grow them so again. In growing under glass in the summertime there are one or two precautions that ought to be taken. When the summer heat comes, in order to keep your carnations growing, an abundance of water is given. The trouble is that in the application of this water you wash the substance out of the soil. Be careful not to impoverish your soil by application of water, as the plants will not have sufficient nutriment to make a strong healthy growth. We will find, however, that by mulching and using heavier soil the results will be very gratifying with many varieties when grown under glass during the summer time. I shall try this plan extensively another summer. I believe I am warranted in so doing by the success that we had at our place last summer.

MR. HERR.—I have tried and shall never try again. McGowan was flimsy and a failure. I got about one-third the blooms I get from lifted plants. (McGowan was the only variety I tried.) I do not think they get the substance they require and do not get sufficiently hardened up. I ventilated freely and was careful in watering; had solid beds and soil did not leach. My soil is sandy clay.

MR. HILL.—McGowan would be the very last variety to grow under glass for the reason that it seems to suffer in summer time even when grown out of doors. In order to succeed under glass it is necessary to take some variety which is a strong grower. If anybody had told the florists 25 years ago about growing roses under glass in the summer as is now done they would have laughed at him. It is very foolish to say it can't be done; it will be done. A friend told me the following recipe for rust: "One pound of dry arsenic to one barrel of water (40 gallons)." I tried the experiment with most gratifying results. I tried it on Uncle John which was badly infested and the result of syringing was absolutely clean plants, but it also seemed to follow the fungus right into the leaf and those leaves badly affected with rust were killed; the leaves became yellow and dried up.

MR. HARTSHORN (Argyle Park, Ill., foreman for J. C. Ure)—I planted, on the 25th of July, a whole bench of Helen Keller and about the 25th of August planted 100 plants of the same sort in another house, and the ones I planted first were much better than those planted later. The same was true with the variety Dean Hole. There is going to be a radical change in the building of greenhouses in order that more air can get to the plants. I would not plant a whole house of carnations under glass as my house runs north and south (I have ventilation on both sides) but the side benches would not get enough air; the middle benches I would plant very early. In the case of Dean Hole and Helen Keller they do much better when planted early but Scott and Daybreak grow quickly enough out of doors and lift well enough in the fall, and I therefore do not see any benefit to them by planting them early. I think

florists around Chicago leave their plants out of doors too long. I think that after this year the 15th of September I shall consider very late for planting carnations in the greenhouse and I will try to have all our plants in next year by the 15th of September.

MR. DRESEL.—Two years ago I took a house 100x10 for this purpose, planting 25 Buttercup, 25 McGowan, 50 Daybreaks and 25 Grace Wilder and the rest of the house Mrs. Fisher, and my experience is against what these gentlemen state. I do not think it is necessary to have more air. I made last year cuttings from Mrs. Fisher thinking I had good healthy plants and this fall they turn out to be sickly. Daybreak grew strong but gave very few flowers through the winter.

MR. E. BUETTNER (Chicago).—I do not believe I will ever try it. The trouble is that we cannot grow carnations at a profit, if we grow the plants under glass in summer. We must use the houses from April on for growing other plants. I do not believe carnations suffer very much when grown out of doors if care is used in the lifting. At our place we begin to take them in by the first of September.

MR. H. STOLLERY (Argyle Park, Ill.).—In regard to growing carnations inside in summer time we have tried Helen Keller and Dean Hole and are thoroughly satisfied and believe with Mr. Hill that that is the way to grow them. I would not say that we get more flowers, but we do get better and stronger stems and larger flowers and not nearly as much grass as when they are grown out of doors. Contrary to Mr. Hill we will try McGowan this way next summer.

DOES IT PAY TO GROW EXTRA HIGH-GRADE BLOOMS?

MR. W. N. RUDD (Chicago).—I can answer that question very easily—"yes." It does not admit of much discussion; it seems to me that it is self-evident. We all know that a good, well-grown carnation bloom will sell at some price at any time of the year, while for the poorer grade of flower there are long periods when they are a drug in the market. The question is whether you are willing to go in for quantity and get a low price part of the year and the rest of the time consign them to the rubbish heap, or go in for quality and always find a market for your flowers. We grow too much poor stuff and not enough good stuff. The poor stuff while it does not sell during the glut brings down the price of the good stuff. When the market is full of the poor stuff buyers do not want it, but they want to buy the good stuff on the same basis. In my time I have had good stuff and bad stuff and was never able to make very much on the poor stuff, and not very much on the good stuff.

MR. DRESEL.—You tell us we must grow good stuff; tell us how to grow it.

MR. RUDD.—All you have to do is to hunt up a man that knows all about it and if you can induce him to grow flowers for you, you can get good flowers if you will simply let him alone.

MR. HOPP (East Grand Rapids, Mich.).—I have not had very good experience in growing carnations under glass in summer. I used both raised and solid benches. Both gave about the same results. I planted out of flats about 10th of July. They were not in it with field-grown plants. Flowers were not bright, although plants made a good growth. I prefer the field-grown plants.

MR. HANCOCK.—Will it pay to grow high-grade carnations? It depends on what your market is. It is a question of

your surroundings and conditions. It is not a question you can settle in the abstract; you must adapt yourself to circumstances, just as you have to take varieties adapted to your soil. Grow your carnations according to where you dispose of them.

MR. HILL.—I believe that circumstances are such that florists will have to grow a better grade of carnations. When a person sees a fine-grown flower he wants it. In proof of this look at the eastern market. Grace Wilder and Silver Sprav sold within the last two weeks at 50 cents per thousand while high-grade flowers brought \$3, \$4 and \$6 per hundred. I am no prophet, but you might just as well make up your minds to grow high-grade carnations. If you don't you will get left. That is the handwriting on the wall and it is as clear as a-b-c.

(Mr. Rudd suggests that the commission men and retailers be heard from.)

MR. C. MCKELLER (Chicago).—All want the best grade. People seem willing to pay high-class prices. The majority of buyers will pay the very highest price for the best quality of goods.

W. J. SMYTH (Chicago).—I think if we had more high-class flowers we could sell more. We could get our customers in the habit of buying them and paying more for them. In regard to stock shipped in here, often when it comes from Michigan and other places and brought into our store it goes to sleep, and what will it do when in an overheated dwelling? I quite agree with Mr. McKeller that the demand is for high-grade blooms. It is only a matter of time when the poorer carnation is a thing of the past.

MR. GARLAND (Chicago).—We growers do not get much more for an extra good flower than we do for fair. I do not believe in growing poor truck, but you get about twice as many when you grow fair than when you grow extra.

MR. HANCOCK.—I do not believe in growing poor grade, but there is not enough distinction made between fair and extra good stock.

MR. E. WIENHOEBER (Chicago).—The people prefer high grade. Customers want the best quality. The man who grows the best stock will sell it quicker than the one who grows fair only. Whoever has the best stock will sell it and the man who has not the best will not. It is certainly true that good stock will sell 20 times in preference. I do not believe that any grower around Chicago would be wise in growing nothing but fancy stock. He must grow good and fancy. The disbudded realized 1 cent more than the others.

MR. RUDD.—Mr. Bentley asks my experience as to proportion between prices of Rose Queen and Daybreak. I do not think there has been a bloom of Rose Queen lost. Everything has been sold out at an advance of at least 25% over the best Daybreaks. When I speak of growing high-grade carnations I do not wish to be understood as necessarily advocating the fancy varieties, but I mean good high grade flowers—good stock, good size, good stem. I think the fancy varieties will also pay if grown well.

P. J. HAUSWIRTH (Chicago).—I believe the demand for high grade stock is growing every day. The trouble with most of the commission men here is they do not make enough difference between the high grade and low grade. The people are being educated up to the best.

After the above was in type we received a visit from Mr. C. H. Allen, treasurer of the American Carnation Society, and



SUMMER HOUSE OF ARAUCARIAS AT THE ESTABLISHMENT OF MR. L. DELARUYE CARDON, GHENT, BELGIUM.
THROUGH AMERICAN EYES.

asking his opinion of the discussion as to the profit in growing high grade flowers, he said that not only did high grade flowers sell for a better price but that a plant could be made to produce just as many blooms of a high grade as of a low grade, and that the only extra expense was in the additional fertilizer used, which is not great. The plant simply exhausts the soil faster. He finds that producing high grade flowers does not necessitate any extra labor. He has six houses, of which four are 16x100 and two 11x100, and has but one regular employee to care for same in addition to the night fireman. He does the cutting of the blooms himself. As to disbudding, in his opinion the grower who does not disbud is hopelessly left in the rear.

CARNATIONS EXHIBITED AT THE MEETING.

The display of carnations was most excellent. Prominent on the tables was the new pink variety Della Fox, certainly a charming flower, which carried well through the evening. A large pot plant of this variety showed an excellent habit and attracted much attention. These were shown by Myers & Samtman, Wyndmoor, Chestnut Hill, Philadelphia, who also displayed a vase of Annie H. Lonsdale, a promising white.

The largest number of varieties was shown by H. Weber & Sons, Oakland, Md. All were exceedingly well grown and would have proven prize winners at any exhibition. The varieties were Portia, Storm King, Albertini, Peachblow, Alaska, Uncle John (Mr. Weber says he has no trouble with rust on this variety), Wm. Scott, Dean Hole, Lizzie Gilbert,

Richmond, Hector, Meteor, Bouton d'Or and Mrs. Reynolds.

E. G. Hill & Co., Richmond, Ind., showed their new variety Jubilee, a brilliant scarlet that is hard to beat for color; Flora Hill, a promising new white; Mrs. McBurney, light pink; Triumph, pink; Armazinda, white striped pink, and Emma Thompson, pink.

Fred Dörner & Son, Lafayette, Ind., showed their new variety Mrs. Geo. M. Bradt, a striking flower, white heavily splashed with red; also Meteor, Uncle John, Bridesmaid, Albertini, Dazzler (scarlet), and Mrs. C. H. Duhme (pink), all exceedingly well grown flowers.

Geo. Hancock & Son, Grand Haven, Mich., showed flowers and a specimen plant of their new white variety Ivory. Also Goldfinch, seedling No. 19, light red; seedling No. 42, white shaded pink, and vase of other seedlings.

The large vase of Storm King, from the Cottage Gardens, Queens, N. Y., contained magnificent flowers on 20-inch stems. As grown by Mr. Ward this white is hard to beat.

From John Breitmeyer & Sons, Detroit, Mich., came Mayor Pingree, a light yellow ground with carmine stripes. It is a handsome flower with the ideal stem and proved an excellent keeper.

Morello was a new rich scarlet exhibited by Hopp & Lemke, East Grand Rapids, Mich. The color is certainly fine, flower large and stem good. A plant on exhibition showed a good habit.

From J. N. May, Summit, N. J., came blooms of his new varieties Maud Dean, pink, shaded deeper in center; Lena Sil-

ing, pink, Lily Dean, white and red; all beautiful flowers and promising sorts.

W. R. Schelmire, Avondale Pa., showed Kitty Clover, yellow, and Eldorado, yellow, both in good form.

Emma Wocher was a promising new pink variety shown by R. Witterstaetter, Sedamsville, Cincinnati, O., who also showed a number of good unnamed seedlings.

M. A. Hunt, pink and white, and Peachblow, pink, were shown by Estate of M. A. Hunt, Terre Haute, Ind.

Wm. Swayne, Kennett Square, Pa., showed some fine blooms of Thos. Cartledge, deep pink.

From F. H. DeWitt & Co., Wooster, O., came Twilight, yellow ground with heavy red stripes, and a deep pink seedling.

John Milne & Son, Fairbury, Ill., showed Rosa Peiser, pink, and sundry seedlings.

The exhibit by W. N. Rudd, Mt. Greenwood, Ill., included finely grown blooms of Rose Queen, Daybreak, Wm. Scott, Eldorado, Minnie Cook and Alaska.

Stollery Bros., Argyle Park, Ill., showed a vase of fine blooms of Dean Hole.

J. P. Tonner, Mont Clare, Ill., showed a vase of Van Leeuwen, light red.

Additional Premium.

The American Carnation Society will offer in addition to the regular premiums published a few weeks ago a preliminary certificate to seedlings bloomed two years, if deemed worthy of such by the judges.

Not less than twelve blooms to be shown and for which there will be an entry fee of one dollar charged.

This certificate is not to be confounded with the regular one offered in the premium list and will not be given for any three year old seedling.

FRED DORNER, President.

ALBERT M. HERR, Secretary.

Albertini Under Glass in Summer.

Has anyone grown carnation Albertini in the house all summer, and what was the result?

GREEN GROWER.

Pennsylvania.

I have grown Albertini in the house all summer, but have not gained any satisfactory results. The house was provided with top and side ventilation. The plants were from 4-inch pots, good and strong, and were planted one foot apart each way, the first week in June. I expected great things; for one, they would cover the ground by fall and give me an abundance of early blooms, but the chickens were not hatched yet. They required most daily watering. By September the plants were not as large as those grown in the field, and I planted a good many of the field grown in between in the rows to fill up a little better, for it looked as if there was so much waste space. Quite a number I lost with stem rot, otherwise the plants had a healthy appearance, only made no headway in growth. True, they bloomed somewhat earlier than those planted in between from the field, but not enough to compensate for the extra work, and at the end of the season the field grown plants proved by far the most profitable. In the same house we had Scott and Daybreak, equally as strong plants when planted, and at the same time with the same results. This in answer to the inquiry, and I will couple my notes on here and take the same subject for my theme.

I have come to the conclusion that in a temperature of 80° and over for day and night for any length of time carnations will cease to grow, just the same as when near the freezing point, say below 40°. With 80° to 90° in the shade the soil on raised benches will heat through to the same degree, and owing to being enclosed, being in the house, even with the very best of ventilation, will not have sufficient time during the short summer nights to cool off sufficiently to give the plants a breathing spell and encourage root action. They simply cease growing, and it kept too wet will rot. Extremes will meet, too hot and too cold have the same effect. The cooling influence the field grown plants receive is shut off from the bench in the house. In the field the roots descend to the cooler strata of soil. On the bench the hot atmosphere is all round them. If shaded the growth they probably will make is drawn and spindling; they lack the foundation of field grown plants.

The objection may be made that when plants that have bloomed all winter and spring and keep on blooming through summer we ought to be able to grow the young plants to maturity under the same condition, to avoid the retarding transfer from field to house. We all know that all plants have to pass through certain stages of their growth to arrive at the point of maturity, blooming reproduction. Our *Dianthus caryophyllus* makes an exception to some extent, but not wholly. One get reminded of this fact when observing a patch of seedlings during their stages of growth, and finds so many different types. Some will bloom when comparatively small and only three months old, others have to attain a

larger size, and take longer time to arrive at this point, and still others will not bloom until the next season. The early and ever-blooming quality is the result of culture, but they possess their original perennial propensity also. The late, and more so those that will not bloom until another season, are the original, the perennial type, the cropper as we call them. These different types are found from seed coming from one and the same seed pod, from parents of an alike pronounced type. So regarding the old plants blooming through summer under glass in a high temperature, and the failure of growing the young plants to maturity under the same conditions, I base my opinion on these ties which hold and bind our cultured varieties to their primitive originality. The old plants on the bench will keep on blooming in a high temperature, for their structure is completed. They will not need to grow materially larger to bloom, one is inclined to think they grow smaller, they spend all their strength in pushing out some more flowers. If cut back to three or four inches they will make a feeble effort for a new growth, but seldom succeed. I have tried but never had any success with plants from the bench trimmed back and planted in the field for summer blooming. The cropper and other *Dianthus* types seldom bloom after their spring blooming, rest through summer and renew growing when cooler weather begins. The root action of a plant completed in its structure is quite different from the one building up the same. To build up the structure the roots run deeper; to bloom they run more to the surface. Shading will be beneficial to the old plants, detrimental to the young. This to my opinion is the difference of an old plant blooming under glass and the poor success we have in growing young plants to maturity under the same condition in our high summer temperature. One variety may not be as pronounced as another in their inclination to the original form, but they are all under that influence more or less.

This is my opinion based on my experience regarding the subject in this section of the country. We have very hot summers, any attempts to grow may be interrupted by hot spells, making the plants completely inactive. The young fibrous roots in quest of nourishment, building material, become weak, die and the work has to begin over again at the next favorable chance, with same interruptions to follow.

Quite different it may be with solid beds, where the roots have a chance to run deeper to the cooler soil, especially if the house is so constructed that the glass can be removed. But will that supposed gain outweigh the advantage of a raised bench in winter? for I consider a raised bench much better than a solid bed. I am very much interested to hear of such experiments. Again, it may be quite different in cooler climates and may prove there the proper thing to do. For my part I am satisfied it will not do with us, and I much rather take the chances on the field grown plants and depend on my care for a successful transfer.

FRED DORNER.

Diseased Daybreak.

The disease shown on specimens sent is completely covering plants of Daybreak, while McGowan alongside is entirely free from it. Can you suggest any way to treat my plants to prevent the spread of this trouble?

J. I. A.
Detroit.

These two leaves show genuine rust. There has been so much said about rust, and I am sorry to say there is no absolute remedy known yet. I refer J. I. A. to my notes on this disease, in No. 390 of this paper.

FRED DORNER.

Twisted Carnation Leaves.

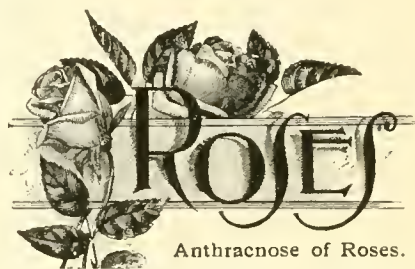
The accompanying carnations have a twisted appearance which seems to have been caused in the field, as none of it appears on growth made after being housed. Is it a disease, or the work of some insect?

E. D. E.

St. Joseph, Mo.

E. D. E. is right in his surmise; it is the effect of a stunted field growth. There is no disease or any insect trouble on the specimens shown; the impoverished condition causes the twisting of the leaves and short or hardly any flower stems, but plants in this condition are always more susceptible to disease, especially bacteria.

FRED DORNER.



In the accompanying box I send you some diseased rose stems. This disease being unknown to me you would oblige me greatly by giving me some information as to its name, probable cause and cure. The trouble always begins at the base of the shoots and gradually works upwards along the stem. In some cases the diseased stem appears stunted, forming small and imperfect foliage and flowers. Otherwise the roses are in good healthy condition and doing very well.

Ohio.

A. S.

An examination of the stems and foliage received showed the disease to be anthracnose; they were badly affected, and should receive treatment at once. This disease has been described, and a remedy suggested more than once in the columns of this paper, but as A. S. may not have paid much attention to the articles in question I will very briefly outline what has been recommended previously as a cure for anthracnose. The disease as far as I know has no connection whatever with the root or the internal structure of the plant, but attacks altogether from the outside, in the same way as mildew or black spot. I have not the slightest idea what causes lead to its origin, I do know, however that it can and does frequently attack apparently healthy plants, and before we are aware of its presence may have spread itself over a whole house. The ammonia solution of carbonate of copper I have found an excellent fungicide for this pest. In making it we mix together 3 ounces of copper and one quart of ammonia, which will be sufficient for 24 gallons of water. The plants should be syringed thoroughly once a week until the trouble disappears. All dead tips should be cut off and burned and the fallen leaves should be cleaned off frequently; if this treatment is followed, together with extra care in watering, ventilating, etc., the plants can be encouraged to grow out of it. ROBT. SIMPSON.



A BAMBOO SUMMER ARAUCARIA HOUSE 1200 FEET LONG; DE SMET BROS., GHENT, BELGIUM.
THROUGH AMERICAN EYES.

New Tea-Polyantha Rose Mosella.

This rose, according to reports in European gardening papers, is spoken of as the best novelty of last year's introductions. It is not like the Mrs. Pierpont Morgan or the Belle Siebrecht, a rose especially adapted for forcing purposes, but is a bedder such as the Clothilde Soupert which has become such a universal favorite.

Mosella originates from a crossing of a seedling of Mignonette X Madam Falcot with Shirley Hibberd, all roses highly esteemed for their freeblossoming qualities. The growth is dwarf and bushy and the sweet scented flowers which appear mostly in clusters of three to five are somewhat larger and in shape like the Clothilde Soupert, their color being a soft deep golden yellow shading to almost white on the edges of the petals, a half open flower resembling somewhat the well known Perle des Jardins. It is said that despite want of water and in the tropical heat of last year Mosella flowered freely and proved in every respect its adaptability as an all round bedding rose. It originated with Messrs. Lambert & Reiter, the introducers of Kaiserin Augusta Victoria and other varieties of prime merit. J. L. S.

Beauty Coming Blind.

"Manchester" says he has American Beauties growing in solid beds; same are making very long shoots, but wants to know why they all come blind. To answer the query intelligently it would be necessary to know what his methods of cultivation are, how warm he keeps the

house he grows them in, what style of house, etc. If I could solve the problem as to why American Beauties sometimes run to blind wood rather than flowers I should be considered fortunate indeed. It is a question that has puzzled some of the very best growers of this popular variety, and will doubtless continue to do so. One season it will make amazing growth with a large percentage of blind shoots, while perhaps the following year in the same house and under the same treatment we get plenty of bloom but little growth. Too much heat has a tendency to cause blindness, excessive feeding may bring about the same result. The tendency to blindness is more noticeable where grown in solid beds than if grown on benches, the frequent drying out of the soil on the bench helps to ripen the wood and induce the formation of buds. If the long blind shoots are bent down and trained along the surface of the soil for a distance, then the end tied up perpendicularly to a stake the flow of sap will be arrested, and if the shoot itself does not bloom, which is quite probable, it will throw up others from the base, less strong, which are pretty certain to produce flowers. If the soil can be kept on the dry side for about two weeks after the tying down process it will help very materially to bring about the desired result. ROBT. SIMPSON.

Through American Eyes.

ARAUCARIAS.

One of the principal plants handled by the European growers is the araucaria. It is to be seen everywhere, and in Ghent some growers devote almost their entire places to its culture. The DeSmet Bros.

are probably the largest growers and were among the first if not the original men to take up the cultivation of this plant. They propagate it almost entirely from cuttings, which are taken from stock plants kept for the purpose, as when once cuttings are taken from them they are spoiled for any other purpose. These stock plants are kept in pots outside on the shady side of hedges or in frames partially protected from the sun. Some growers had plants in the full sunlight and all seemed to keep them in rather small pots.

The cuttings were taken off from August to December and were generally two rows of leaves long, there being about an inch of stem left below the bottom row. The lower row of leaves is tied up to the stem with a piece of raffia and the cuttings are then placed in boxes of sand in the greenhouse and covered with glass. When well calloused they are potted and soon root, requiring generally from 10 to 12 weeks' time. About 80% is considered a good strike.

When the plants are about a year old and it is seen they will not make shapely stock they are set aside and grafted, mostly with compacta, which latter variety does not root well.

In summer most of the stock is grown outside under slat houses. These are made in various ways, some being very ordinary with a plain straight roof and a hedge border, while others were quite elaborate, having an iron framework and neat slat or bamboo covering reaching on the sides to the ground.

The accompanying illustrations will perhaps give an idea of the extent of some

of the houses. Both of these structures were filled with beautiful stock, nearly every plant perfect and having the added charm to the growers of being nearly all sold. Stock in from 6 to 8-inch pots, with the preference for the smaller size, was the most popular. Any quite large plants were generally offered low, as the demand was very limited for large sizes, even the European trade appearing not to want them. K.

Compost for Violet Bed.

J. S. sends the following: "I want to make a compost heap for my cold beds for violets, to be planted out in the spring. Will this proportion be a good mixture—1 load of stable manure, 1 load of turf, 1 barrel chicken manure? Will the chicken manure hurt the plants or can you suggest anything better?"

I think I can suggest something much better than the above, but it is presuming a good deal to say that; anybody knows just what soil should be for violets. In my own experience I have grown violets very successfully in a certain soil, and they were a total failure next year in the same soil. I have heard violet growers condemn a soil because it was too heavy, and in a few days met a man who said violets should have a stiff soil and be well firmed, as you would for roses. Violets in California grow luxuriantly in almost a clear sand, but violets in Great Britain are found growing under the shade of trees and in the woods, where there would be a deposit of decayed leaves, so it seems soil has little to do with the success or failure of violets. Leave out the chicken manure altogether, save that strong article for your Brussels sprouts. If growing violets in a cold frame, as the subscriber intends to, for he is in Virginia, I should feel perfectly safe with the following: Three loads of well decomposed sods and one load of thoroughly rotten stable manure; have this mixture turned over several times before planting the violets, and if you don't get violets it won't be the fault of the soil.

WM. SCOTT.

Butted Glass—Violets in Frames.

I have seen several articles in the *FLORIST* in regard to butted glass without any putty being used. How would this do for cold frame sash for violets?

How deep should violet frames be at back and front, and how high should the thermometer get on a clear day before the sash should be opened wide?

J. W. T.

J. W. T. will find that butted glass will answer admirably for cold frame sashes. Butted glass has a great many warm advocates.

Frames 2 feet 6 inches at back and 1 foot 6 inches in front will do very nicely.

Thermometer outside should reach 45° before lifting sash off; 50° is a good temperature for cold frames with air on. Close attention will be required from now on as the sun is getting stronger and the air is apt to be very cold.

GEORGE SALTFOED.

Distance to Plant.

B. J. P. sends the following: "I would like some of my learned brothers to advise me on the correct distance apart each way to plant cannas, coleus, geraniums and alternantheras." This will depend somewhat on the size of the plant you have and whether your customers can

afford to be extravagant and pay for immediate effect. I will give the distance at which if the plants are of fair size and vigorous they will not look "scrimpy" when first bedded out and will have room enough to grow and do well the whole season. Cannas, all the Crozy type, 18 inches each way; the old strong growing foliage sorts 2 feet. Coleus, moderate growers, 9 inches each way; strong growers, 12 inches. Geraniums, bronze, silver leaf, etc., 10 inches; strong flowering sorts 12 inches. Alternantheras, according to size of plant, 6 to 8 inches.

WM. SCOTT.

Pelargoniums Flowering.

From Evansville, Ind., comes this question: "Will pelargoniums which are rooted this month—January—bloom this spring? Oblige with an early answer."

Why certainly they will; you can't stop them. If they are strong healthy cuttings and grow as they should when potted you can pinch the top out of them and they will branch out and make a bushy plant, that when shifted into a 4½ or 5-inch pot will be sure to flower in May. Give them a light airy place with a cool night temperature, and keep free from aphids, and you are bound to have flowers.

WM. SCOTT.

New York.

Cut flower trade in the city has been generally brisk for several days, and the outlook is very encouraging for the next few weeks. The quality of much of the stock coming in has been very inferior, however, and falls far short of filling the requirements of the buyers, who are more fastidious this season than ever before. Bridesmaid roses are off color and in fact all varieties of roses are soft and flabby, a result which may be attributed to several days of warm rainy weather and which a few bright cold days will doubtless overcome. American Beauty roses of good quality are decidedly scarce and there is every prospect that they will so continue for some time. Carnations sell better than they did last week, although there seems to be a good crop coming in from all sources. White seems to be the color most eagerly sought. Bulbous stock is generally poor. Harrisii lilies are soft and tulips are almost invariably of the lowest grade. Lily of the valley is also unsatisfactory in quality. Why will growers persist in tying two or three unsalable spikes in the middle of each bunch of twenty-five valley? They should know that it is discovered in every instance and that the price realized for the balance is below what it would be if the rubbish were left out entirely. Violets suffer from the same misguided practice. Two or three mottled or decayed violets will lower the grade of the bunch in which they appear, by fifty per cent.

Already the talk of extensive greenhouse building as soon as the season opens, is in the air. Rose houses are to go up in unprecedented numbers it would seem. Many of the older establishments are planning extensive additions and their owners are evidently not disheartened or dismayed by anything in the present season's record.

The trustees of the Florists' Club have appointed Messrs. P. O'Mara, 35 Cortlandt street, New York, W. A. Manda, South Orange, N. J. and A. F. Burns, Woodside, N. Y., a reception committee on behalf of the club to extend all courtesies to visiting florists at the time of the Carnation Society's meeting. These gen-

tlemen will, upon request, secure hotel accommodations for visitors and they particularly desire that delegations coming to the meeting shall inform them of the time of expected arrival of trains so that they may make arrangements to meet them at the station.

The New York Florists' Club will give a banquet in honor of the American Carnation Society on the evening of February 20. In order that full provision may be made for the number of guests attending it is imperative that the secretary should know one week in advance the size of the delegations from all points, and secretaries of the clubs which will be represented are particularly requested to extend their aid by ascertaining and communicating to Secretary John Young, 53 West 30th street, New York, the number of visitors expected to attend from their respective jurisdictions.

Frank L. Moore, the inventor of the ingenious Workeasy buckle now generally used on flower box straps, has applied for a patent on an improvement on same whereby the wear and tear on the strap will be greatly lessened.

Warendorff has opened a branch store on Sixth avenue, between 14th and 15th streets.

L. M. Noe, manager of the New York Cut Flower Co. has been ill and confined to his home for a week.

Mrs George Darsley died at her home in Jersey City on Thursday January 23.

Visiting New York: Thos. F. Galvin and N. F. McCarthy of Boston.

Boston.

On Saturday, January 25, Prof. Geo. L. Goodale of Harvard Botanic Garden delivered a most entertaining and instructive lecture before the Massachusetts Horticultural Society upon the vegetation of the tropics, dwelling particularly upon those species that have become familiar to us as "stove plants," such as aroids, nepenthes, orchids, musas and palms. The lecturer presented a series of beautiful stereopticon views in Singapore, Persia and the trackless jungles of Ceylon, showing the wonderful development of these plants under favorable climatic conditions. Especially interesting and beautiful were the avenues of ficuses with their buttressed trunks and the graceful towering clumps of bamboos. The address was mainly descriptive of the different views as they were thrown successively on the canvas.

During the latter part of last week the cut flower market took one of those sudden and almost inexplicable turns which some years ago were of frequent occurrence in midwinter, but which are now rarely experienced. The supply was all at once cut short and almost before they realized it buyers were hustling about from one wholesale establishment to another in quest of stock of which but a few hours before there was apparently an abundance for everybody. Carnations were particularly affected and prices were doubled up in short order. White varieties were most in demand, the poorest culls selling quickly at two dollars per hundred. The stringency moderated somewhat after a few days duration, but its effect is still felt, and as the usual brisk demand experienced at the height of the fashionable season is now on conditions continue favorable for the growers' interests, leaving the street fakirs as the only parties with any cause for dissatisfaction.

The committee of the Massachusetts

Horticultural Society appointed to consider the question of a new site, adopted at a meeting on January 22 a vote recommending to the society that they give said committee power to offer the property now occupied by the society for sale, provided that they can obtain a satisfactory price, and the matter will be brought before the society for consideration at the meeting on Saturday, February 1.

The annual supper of the Gardeners' and Florists' Club took place on the evening of Thursday, January 30. A number of invited guests were present and the usual good time was enjoyed by the large company in attendance.

Lawrence Cotter, president of the Gardeners' and Florists' Club of Boston, was married on Tuesday evening, January 28, the occasion being, in Mr. Cotter's opinion, a good and sufficient reason for his absence from the supper on Thursday. Under the circumstances he has unanimous consent.

There are said to be several aspirants for the position of City Forester, now held by Mr. Wm. Doogue.

Mr. Robert Farquhar will address the Gardeners' and Florists' Club on Tuesday evening, February 4.

Buffalo.

Fair and moderate weather for the past week will be a suitable description for the business as well, nothing startling. Violets are in good demand and bring \$2 per hundred, carnations go well and 50 cents per dozen is the ruling price unless it be Albertini, Keller or Bridesmaid. Good Bride and Bridesmaid roses bring \$2, but with carnations such a prime favorite we seem to get along without so many roses.

A visit to the South Park a few days ago was enjoyable, for Botanical Director Cowell has several things of interest to show. A small light and cool house has a great variety of carnations, all in fine order and what is encouraging is that although he bought several varieties badly infested with rust last fall, they are now perfectly free of it, thanks to a regular treatment of the liquid Bordeaux. The flowers of all varieties were more than ordinarily fine, but among newer ones none pleased me better than the abused Bride of Earlecourt. He has flowers of it as good as those shown in Toronto last winter, and that is saying a good deal, a most robust plant with flowers and stem for superior to any which I have yet seen. The Professor can also be very proud of his cinerarias; I measured a dozen or two of the finest. They are in 9-inch pots 3 feet in diameter, not over 15 inches from top of pot, only a small margin of leaves to be seen extending beyond the flowers. They are just the shape of a small umbrella. I don't say this will do for a florist to copy, but it shows what good and careful cultivation, especially watering will do. All his florist flowers and botanical collection are looking well.

After a long interval the writer in company with Mr. Wise of East Aurora, visited the veteran W. J. Palmer and found him roaming round his big establishment in usual robust health. Meteors, Bridesmaids, and Brides looked in several big houses as good as it's likely they are anywhere in this broad land. Carnations are a big feature at this place, 5 or 6 houses being filled with Daybreak alone. While some of the Daybreak houses were merely good but quite good, others were the finest specimens of this standard variety the writer has ever seen. Flowers 4 inches across were more the rule than the exception. Helen Keller is there in

fine form, no shrivelled-up flowers, and of great size. Meteor also shows up grand. Mr. Palmer says Albertini is a fine flower, but he is sure it ought to bring \$10 per hundred to pay. Mr. Wise and Mr. Palmer both tie or support their carnations in the same way. In fact the method originated in East Aurora. It seems to me about perfect in every way, and will be fully ventilated at the carnation convention in New York. Mr. Palmer went in for one hundred thousand LaReine tulips, since Christmas he could cut you fifteen thousand any day. He got them to assume that charming pink tint. In fact he made a ten strike with them.

W. S.

St. Louis.

Good roses are selling well, and the demand bids fair to continue brisk until Lent sets in, or until the production is considerably increased. This condition of the rose market is undoubtedly owing more to the smallness of the cut generally than any special increase in consumption. The first two days of this week were very brisk, all the commission men saying that they soon sold out all their stuff. Flowers are scarce, and particularly in first-class grades. Good Beauties are very scarce and go for \$3 to \$5 per dozen. Brides are scarce, that is good ones, and in demand at \$5 to \$8 a hundred. Perles of good quality are \$3 to \$4, but good Perles are comparatively scarce. Carnations are not plentiful, and are going well. Daybreaks and Scotts sell at \$2 to \$2.50, with some extra blooms at \$3. Scarletts are not plentiful, and in great demand. Bulbous stock is still large in supply. Good valley brings \$4. Romans go at \$2 to \$4; daffodils (Von Son) are coming in now, and bring \$4. Tulips and Dutch hyacinths are in, but most of the tulips are too short stemmed. Callas and Harrisii are selling well. Good large flowers bring \$12. Violets are in fair demand and sell at 25 cents for single and double at \$1.50. Smilax seems to be going better that it did, and is a little scarce. Complaints of dull business are general, both shipping and local trade suffering alike.

Fred Dörner & Son of Lafayette, Ind., are sending some very fine carnations to this city.

The exhibition committee is hard at work on the preliminary list, and expects to have it out by February 15 for distribution. Mr. F. C. Weber will look after the west end florists, J. J. Beneke the down town florists, Emil Schray the south end, and R. F. Tesson and H. Young the suburban men.

The decorations of the high school graduating exercises on January 25 at the Music Hall Exposition Building were the most elaborate ever seen. The entire stage was decked with palms, etc., the scenery being decorated with wild smilax and cedar with motto "Step by step," made of red immortelles and tied with satin ribbon of same shade. The class emblem was a large wreath of holly with letters H. S., '96, made of yellow immortelles suspended in the midst of green moss, palms, and smilax. The class, numbering 75, carried huge bunches of holly tied with class colors of ribbons. This was the work of the Ayers Floral Co., and was admired by everyone.

The Bowling Club on Monday night rolled three games; the Japs were on top again. John W. Kunz was high man, he rolling 605 in three games, and his single score was 237. Mr. F. C. Weber was second with 562, and E. Schray was third

with 558. C. A. Kuehn was sick and unable to roll, and missed his first games; this ended the series of 12 games. C. Beyer wins both medals, his total for 12 games being 2,460, average 205, and his highest single score being 289. This makes the clover leaf medal his property. Next Monday a new style of game will be rolled, and it will be to the interest of every member to be present. J. J. B.

Toronto.

The weather, which has been simply execrable the last few days, has been almost the sole topic of conversation. Superintendents of parks and gardeners are bemoaning the loss or spoliation of many valuable trees from the loads of ice which gathered on them, and which they were unable to carry. It is heart-breaking to see some of them. From many reports Toronto seems to have been the center of the storm. Telephone, telegraph, fire alarm, police, trolley car wires were completely demoralized, the posts in many cases being snapped off. We are recovering, however.

The regular monthly meeting of the Gardeners' and Florists' Association on Tuesday last was very well attended and lots of business was done. The new president, Mr. George Reeves, read an inaugural address which was both retrospective and prospective, it pointed out where in some respects horticulture had retrograded rather than advanced during the last twenty-five years, especially in the reading and discussion of essays and in the circulation of local horticultural literature. Suggestions were made towards advance on these lines, which Mr. Reeves intends to push during his term of office. A lively year may be expected without any of the bad feeling of last year.

Some very fine cyclamen were shown by Mr. Watkins from the Horticultural Gardens, and grown by Mr. E. Collins from seed brought by him from England last February. Mr. Collins will give a paper at the next meeting, setting forth his mode of cyclamen culture.

I hear that \$20,000 will be spent by the parks and gardens committee on the Rosedale ravine drive this year. This drive will be a most beautiful addition to the already fine system of parks in Toronto.

Mr. R. Gore, formerly a florist, but who has lately been assistant gardener to Sir Casimir Gzowski, is taking a trip to the old country.

Dunlop reports business good in spite of bad weather. There is a large demand for violets. The Cawthra-Renton wedding called for a great number of pink and white roses on Wednesday, and Mrs. W. G. Gooderham's ball used a large quantity of flowers for decoration on Thursday. A big dinner at the Board of Trade kept things from being dull on Friday. The supply of tulips, daffodils, valley, hyacinths and carnations is large, but the demand has kept pace with it. Roses are very scarce, not sufficient to supply the demand. E.

Baltimore.

There does not seem to be much change in the condition of the cut flower market.

A new departure in decorating has brought out a growl or two. A certain hall being elaborately decorated for a ball was to be used for another event on the night following. The parties in charge of the second affair countermanded their order for decorations and revelled in the beauty of the decorating already done.

Rumor says that one or two subsequent assemblages were correspondingly prudent and economical. Probably we will have the bon ton combining several high social events and putting up one grand decoration to be used by each in turn, by lot or according to amounts contributed.

The shortcomings of the past season does not seem to have abated the zeal with which preparations are being made for Easter and spring sales, and the indications are that an enormous stock will be on hand for both. MACK.

Pittsburg.

It was the intention to hold the meeting of the Florists Club on Tuesday night, 28th inst., at our former place, Maginn's Hall in Allegheny City, but as it was not available for that evening we met through the courtesy of W. C. Beckert at his storeroom, 19 Federal street. It being election night a large number attended. The official reports of the secretary and treasurer showed the club to be at present in a very flourishing condition, and a very gratifying increase in membership in 1895. Owing to the absence of our vice-president Mr. E. C. Reineman filled the position as chairman pro tem and read a very able paper on the progress of the club, its future welfare, advising the members to be more alive to the beneficial results to be gained by a more intimate acquaintance with each other, evince a warmer fraternal feeling so that all will work together more in harmony, and do away with the so-called secret methods of culture, thus producing benefits, that will in the end be very great, both in the enlargement of ideas, as well as the pocket. Mr. Reineman also made a feeling and beautiful announcement of the death of our late president A. W. Bennett, after which a committee composed of Samuel McClements, A. Filson Dalzell and George W. Burke, were appointed to prepare resolutions expressive of the sentiments of the club in the great loss it has sustained, they to report at the next meeting.

The club then proceeded to elect officers for the ensuing year; after a spirited contest for some of the places, the result was announced by the tellers, Mr. S. McClements and W. H. Elverson as follows: President, E. C. Reineman, 307 Lowry street, Allegheny City; vice-president, George W. Burke; treasurer, John Bader; secretary, O. C. Oehmler; assistant secretary, E. C. Ludwig. Executive committee: Fred Burki, George Oesterle, P. S. Randolph.

It is expected that the new officials will devise ways and means to increase interest in the meetings, make them attractive and secure an attendance that will demonstrate that the club is a good affair to stick to and work for. A great deal of interest was manifested in a fine bunch of the new carnation Della Fox displayed by E. C. Ludwig, the verdict was that it is a good one. At a late hour the meeting adjourned to meet on February 11.

The trade situation seems to be improving slightly. All report a good demand for funeral work and considerable decorations. Messrs. A. M. & J. B. Murdoch had one of the most elaborate wedding decorations, ball at Duquesne Club, and a large reception in Allegheny all coming on the same day, these with some extra funeral pieces kept all hands bustling.

A visit to the Phipps conservatories show that everything there is moving along smoothly, but all miss the presence of the late superintendent. Later on the

cinerarias will present a beautiful appearance; they are just beginning to flower now. The other flowers are looking well and the preparations already made will give a grand Easter show. There is one plant of the *Phalaenopsis Schilleriana* (moth orchid) that is attracting a great deal of admiration, it has a spray of beautiful pink blooms 112 in number on it, and Mr. Joe Spring, the foreman, expects that with another season's growth it will do much better.

W. F. Lauch is reported sick with an attack of la grippe. He was missed at the meeting on Tuesday as he is one of the most faithful in attending; all wished for his speedy recovery. REGIA.

Philadelphia.

There has been quite an improvement in the business of the past few days; the weather has been cold and wintry, and this has kept the supply down. The extra demand has cleaned up the stock every day, so that sleepy carnations and fat roses are the exception. There does not seem to be an overstock of anything except perhaps it might be Romans. Good Beauties and Brunners are in demand; the best Beauties, 30 to 36 inches, bring \$5 to \$6 per dozen; 18 to 24 inches \$3 to \$4, and 12 to 15 inches \$1.50 to \$2. Brunners, the best, and there are very few about, sell for \$5 per dozen; smaller stock down to \$3. None of the growers have had a profitable crop of this rose as yet this season. Mr. Butler, who had such success with a late house last year, has an early one in, but says it will hardly pay for the coal. Messrs. Harry Weiss, Myers & Samtman, J. Heacock and John Burton are sending in some very choice Bridesmaids. There is considerable discussion among the boys who carry them as to who has the best, and a prize of \$5 has been offered for one dozen flowers to be on trial before the February meeting of the Florists' Club, February 4, judgment to be passed on them by a vote of the members.

The best teas have not changed much in price, \$10 still being asked for fine stock, seconds \$6 to \$8; a few extras are said to bring \$12 to \$15. Carnations are in full supply, and the majority go for from \$1.50 to \$2. Good Scott seem to be the best sellers. A few fine Tidal Wave are received by Samuel Pennock; a pink a shade lighter than Scott, with the good qualities of stem and form of flower such as Tidal Wave has, would be a fine seller. Hugh Graham's new sport from Daybreak approaches this ideal and is certainly a fine thing.

Jos. Kift is sending in some good sprays of *Acacia pubescens*; he has a house of it planted in the ground, and it certainly produces a lot of flowers when treated in this way. Valley is now being carried by quite a number of the growers; it is being done fairly well by most of them; \$2 to \$4 is the price; leaves, however, are scarce. One grower in order to fatten his bunches sows a few handfuls of corn with every new lot of pips and passes the foliage off on the unsophisticated for the genuine article; the nomenclature committee should hear of this. Violets are selling better. Eisenhart of Holmesburg is sending in some fine Lady Campbell. Supiot, the French grower, is doing very well with his large single, the Luxonne; his large bunches are certainly very fine. He grows them in low pit houses entirely without fire heat. In extreme weather the beds freeze up, but it does not seem to hurt the plants, as the first sun brings out a crop of flowers. Mr. Supiot says his method of growing suits him very well,

as in very cold weather violets do not sell well and his plants stand still, while good bright days bring violets and a good demand for them at the same time. White violets are scarce; very few come to this market. A dealer having an order recently for white violets being unable to obtain them sought a way out of the difficulty with some Lady Campbells and a pot of sulphur. We are unable to give the exact result, but rumor has it that he filled his order.

Plants are selling better. Harris has some very nice pot lilacs; his azaleas and daffodils are also fine. His genistas are now coming in, and are fully up to the Harris standard. Colfesh has very good Harrisii lilies in pots, the flowers being extra large; also good freesia. Becker's azaleas are fine. Mencke is also sending in quite a variety of blooming stock.

Small straight rubbers are scarce; in fact the market is entirely bare. Early last fall there was an abundance of this stock, Messrs. Harris, Craig and Dreer had a good supply as well as that held by smaller growers. Now an order for six single stem rubbers 2 feet high could not be filled. The \$2 size of latanias are also all gone and good bushy arecas in from 8 to 10 inch pots are not to be had. This state of affairs when compared with the large stock on hand at the commencement of the season goes to show that the growers of palms are not keeping up with the demand and that there is considerable room for development in this branch of the business. K.

At a Farmers' Institute held at Bustleton, Pa., recently an address was delivered by Edwin Lonsdale upon the subject of "Plants for home adornment, with some suggestions as to the best varieties for the purpose and how to take care of them," which seemed to be of especial interest to the ladies present. Mr. Lonsdale has for some time past been making a study of plants for this purpose, and has great faith in the future development of this much neglected branch of the business. In the paper delivered at Bustleton the speaker took occasion to handle the florists without gloves. He deplored the fact that so much superficial knowledge prevails among florists in general as to the proper care of plants in homes, and the best kinds for that purpose. He advises florists to take to their homes plants that are popular among customers and carefully experiment with them under the various conditions which may be found in dwellings, noting the temperature in which they do best, and the amount of water required, and at what intervals administered, so that at the end of six or twelve months intelligent advice could with confidence be given, thus solving in some measure one of the most difficult problems which confront the craft at large at this time.

After the meeting the speaker stated that he was gratified with the great interest manifested, and emphasized the fact that out of all the meetings of the sections held during last winter, and so far this season, under the auspices of the Pennsylvania Horticultural Society, Philadelphia, those which attracted the most attention were the ones devoted to plants in our homes, which is an encouraging sign, and one which should not be lost sight of by the profession.

Chicago.

As Lent approaches society moves a little faster and the flower trade feels the impulse. Both city and shipping trade this week was fairly good, stock being

entirely sold out most days. There was not an extra large supply, however. Weather has been very discouraging, being warm and springlike, and often cloudy, but in spite of this disadvantage the quality of flowers has been as a rule very good. Most of the roses coming in are excellent, particularly Bride and Bridesmaid. Prices range from \$6 to \$8, \$7 being the ruling price on good stock. Kaiserin is still being cut by the Reinbergs, and in spite of the season averages up well with Brides. Testout is fine; Siebrecht and Morgan are not plentiful enough to make much impression as yet, and we shall have to wait for another season to define their position in this market.

Carnations show a marked scarcity in whites, which are in strong demand; they sell as fancies at \$2 and \$2.50, and \$3 has been quoted for them during the past week. Others range from \$1.50 to \$2. Violets are still scarce; some are now being received from distant western points; they are said to be good flowers, but naturally the perfume is not all it should be after the journey.

Bulb stuff is selling pretty well, the scarcity of white carnations helping sales. Valley continues to improve. Daffodils are very good.

In plants our market shows little besides a few cyclamens and primroses; they are said to go very well, but this is a neglected line here. In palms the same circumstances prevail as in the eastern cities—there is a scarcity of the smaller sizes. Mr. Wittbold, who has made palms and ferns his specialty for many years, notes an enormous increase in the demand for these plants throughout the west.

Mr. G. H. Peiser of the Kennicott Bros. Co. starts next week on a trip through the south for the benefit of his health.

Mr. John P. Tonner has started in the commission business at 41 Wabash avenue, room 2. Another addition is the firm of Bartholomew & Cowdery, who have joined the wholesale aggregation at 88 Wabash avenue.

Recent visitors: C. H. Allen, Floral Park, N. Y.; Mr. Anderson of Thompson, Anderson & Kennedy, St. Louis; Alfred Broman, foreman for G. M. Kellogg, Pleasant Hill, Mo.

Rochester, N. Y.

Cut flower trade during the past week has materially improved. Dinner and wedding decorations, receptions and other entertainments are calling for large quantities of flowers, and as there is no oversupply at present in any line everything is sold out pretty clean. Low prices for carnations are still prevailing, everybody seems to be waiting for some leading firm to advance the prices, when all would follow suit and be glad of it, for every florist in town is disgusted with the unprofitable low figures. Bulbous stock, though abundantly in the market, sold well so far at very fair prices. Double and single Von Son are eagerly taken up as soon as they arrive; scarlet and yellow tulips are of fine quality and find ready purchasers. Roman hyacinths are very plenty, still they all disappear before the day is over. Valley is excellent in quality at most places, but not overplenty and is used rather sparingly except for special orders.

Mr. Geo. Savage, who at the time of my last letter was on the way to recovery, had a relapse and is at present in a more critical condition. He is a very sick man, but the doctors are convinced that his strong constitution, together with the most careful attendance he is getting,

will overcome this severe attack and restore his health. His numerous friends are very anxious to see him at his usual post again, and hope for a most speedy and complete recovery. J. B. K.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads not admitted under this head.

SITUATION WANTED—On private place by first-class gardener, married, no children. Address: A. F. care American Florist.

SITUATION WANTED—By first-class, all-round florist, good propagator, American, good references. I. P. HERSEY, Amesbury, Mass.

SITUATION WANTED—Gardener, first-class private place wanted by married man, age 40 years, no family; good recommendations. Address: B. A. care American Florist.

SITUATION WANTED—As manager commercial place, 20 years' experience; good business ability, reliable; state terms. Address: COMMERCIAL, care Am. Florist.

SITUATION WANTED—As manager or foreman, practical grower of cut flowers, decorative plants etc.; would rest or buy part interest. Address: CONFIDENCE, care American Florist.

SITUATION WANTED—By Englishman, single, age 26, experienced in general greenhouse work; good gardener; active, steady worker. Address: ROBERT MAIN, 61 North St., Gloversville, N. Y.

SITUATION WANTED—By first-class florist and gardener, young married couple, to take charge of gentleman's place with greenhouses. Best of references. Address: C. G. care American Florist.

SITUATION WANTED—As foreman or general manager of commercial establishment, or gentleman's private estate; experienced in each; first-class references as to ability and personal character. Address: A. B. 752 Grand St., Jersey City, N. J.

SITUATION WANTED—By one of the best florists in this country; only permanent and \$50 per month will please. OLIVER KING, foreman Rocky River Nurseries and Greenhouses, Rocky River, O.

SITUATION WANTED—By a young man, single, age 22, to assist inside on a gentleman's private estate; experienced forcing grapes, peaches, actineries, figs, strawberries, hot and cool plant houses and conservatory; good references. C. W. ASHMEAD, Baldwin Ave., Simonsville, Waterbury, Conn.

SITUATION WANTED—A man of 25 years' experience as manager of a large place, growing for extensive catalogue trade, also cut flowers for first-class store trade; capable to manage any place as a specialist in florist or nursery line. Only a position of responsibility, warranting adequate pay is desired. Please state particulars. C. N. St. Matthews, Jeff. Co., Ky.

SITUATION WANTED—By a man of 26 born and raised horticulturist with unusual skill and extraordinary knowledge of everything pertaining to this business as grower, manager, landscaper, shipper, designer; will travel as salesman or agent, or as collector of plants; will accept any honorable horticultural position which would keep a man with brains busy. Address: HORTICULTURAL GENIUS, care Am. Florist.

SITUATION WANTED—American, married, aged 40, no children, strictly temperate, do not use tobacco, over 20 years' experience, as grower in private and commercial places; am a good grower of roses, carnations, mums, bedding plants, palms and ferns; have worked under the best rose growers in this country; good breeder-out of all kinds of plants; active, not afraid of work, and always looking after my employers' interests; was 17 years at one place. In writing state wages and size of place; 3 years at present place. Address: ACTIVE, care Am. Florist.

WANTED—Greenhouse assistant, commercial place. State experience and wages per month including board. GEO. S. BELDING, Middletown, N. Y.

WANTED—To rent commercial place, in thorough good running order, well stocked or will run on shares. Address: FLOUNT, care Am. Florist.

WANTED—Good all-around man, single; steady job; state wages with board. GARFIELD PARK ROSE CO., 1688 Madison St., Chicago.

WANTED—TO EXCHANGE—500 Smilax plants from 3-inch pots for rooted cuttings of carnation Hulse's White and J. J. Harrison. H. P. SMITH, Piqua, O.

WANTED—Young man with several hundred dollars and experience desires to go in florist business in Philadelphia as partner. Address: Box 155, 38 N. Broad St., Phila.

WANTED—Two young men with some knowledge of growing cut flowers and bedding plants. State wages wanted with board. Address: COLE BROS., Box 577, Peoria, Ill.

FOR SALE—Five greenhouses, located in the healthiest climate of the west. For particulars, address Box 562, Canon City, Colo.

FOR SALE—1,000 feet of 4-inch hot water pipes, in first-class condition. GARFIELD PARK ROSE CO., 1688 W. Madison St., Chicago.

FOR SALE—A fine retail florist's business in business center of an important western city. Will sell at a bargain for cash on account of ill health. A rare opportunity. B. C. care American Florist.

FOR SALE—CHEAP—Greenhouse plant in one of the best states in the Union; between four and five thousand feet of glass, well stocked, hot water. Write for particulars. Address: R. care American Florist, Chicago.

FOR SALE—22 greenhouses and 5 acres land, about 1 acre under glass, with or without land and in good condition, houses filled with stock; will be sold at a bargain if taken at once, as I intend to go out of business. For information address:

MIC. E. J. DEUTER, 948 Winnebago St., Milwaukee, Wis.

WANTED.

Let us grow your Carnation plants at 1c each, and your Violet plants at 1 1/2 cts. each. We want 100,000 Carnation and 50,000 Violet plants to grow. We have a good soil and situation to grow strong, healthy plants. Willenreiter & Schwiemann, Florists, Danvers, Ill.

FOR SALE.

A good paying florist and gardening business; 3 1/2 acres, four greenhouses, 3,100x300, and 1,7x110, equipped with hot water system throughout. The business and good will thoroughly intact. Two hours of Washington; three of Baltimore, and seven of Philadelphia; on two railroads, the B. & O. and the N. & W. Plant cost about \$6,000. Will sell at great sacrifice and on the easiest terms. Splendid opportunity for right man. Apply to James M. Mason, Jr., Trustee, Charles Town, W. Va.

Complete Catalogue

OF Fruit Tree Stocks, Ornamental Trees, Shrubs, Evergreens, Roses, Etc.

Grown by

P. SEBIRE & SONS,

USSY, (Calvados), FRANCE, will be mailed on application to their sole Agents,

C. C. ABEL & CO.,

P. O. Box 920. NEW YORK.

300 Acres in Nursery.

1 Acre of Glass.

Specialties for Florists.

Cardenias, bushy, 15 to 18 inches.....	Per 100
Crevellea, 12, 18 and 24 inches.....	\$6 00, \$8 00 & 15 00
Eugenia Jambos, 12-15 inches.....	12 00
Camphor, 12-15 & 20-40 inches.....	\$8 00 & 25 00
Guava Red Cattle, 1-20 inches.....	12 00
Magnolia Fuscata, 8, 15 & 20 in.....	\$12, \$15 & 25 00
Olea Fragrans, 6, 10 & 20-15 in.....	\$8, \$12 & 20 00
Oranges & Lemons, grafted on dwarf stock, blooming size, stocky, 10-12 & 15-18 in.....	\$25 & 40 00
Otaheite Orange, bushy, 10 & 12-15 in.....	\$8 & 15 00

Stock of above all pot-grown, ready now to ship, and in best possible condition.

FIELD-CROWN ROSES, including 10/00 M. Niel, budding; Fruit and Ornamental Trees, Rare Cult. etc. Send for Trade List and Descriptive Catalogue.

P. J. BERCKMANS.

Fruitland Nurseries, AUGUSTA, GA.

Rooted Cuttings.

COLEUS for massing, best red, yellow and fine green at \$6.00 per 1000, or 50c per 100. Fancy leaved, twenty finest varieties, at \$5.00 per 1000, or 75c per 100.

AGERATUM Pope's Pet, at 60c per 100.

HERR'S PANSIES, at \$6.00 per 1000, or 80c per 100.

Stock grown by Daniel K. Herr. Address communications to

ALBERT M. HERR,

L. B. 496. LANCASTER, PA.

We are now offering a fine lot of

DRACÆNAS

in the best sizes and varieties, at very low prices. List on application.

PITCHER & MANDA, Short Hills, N. J.

NEW GOLDEN YELLOW TROPÆOLUM

"COOLGARDIE," (May).

One of the finest novelties of the season, flowers pure golden yellow, of free growth, and will keep up a succession of bloom throughout the season. First-class awards from Royal Horticultural and Royal Botanic Societies. 1 can offer a limited quantity of seed of the above, price 2s 6d per pkt. of 12 seeds, post free. H. B. MAY, Dyson's Lane Nurseries, Edmonton, London, England

Milwaukee.

A display of all the leading varieties of carnation blooms, including the newer varieties which are to be disseminated this season, will be held here; this will give all florists in and around Milwaukee an opportunity of comparing the different varieties before determining which to select for the coming season. The flowers will be displayed at the Wisconsin Flower Exchange, where all are invited to examine them February 6.

One grower in the vicinity keeps a record of his violet returns and reports an income of 50 cents a plant for last season, with fair indications of this season increasing the amount. It would be interesting to know how this compares with many others.

The demand for flowers has been fully equal to the supply during the last two weeks, the waste barrel is not used. Freesias appear to be more popular this season than ever before. The use of flowers for wearing is certainly on the increase, also pot plants for room decoration.

There is a noticeable desire here among many of the citizens for the organization of a horticultural society. A number of the principal citizens are interested in the movement. The successful development of our parks so far has awakened an interest; this is manifest in a general desire to further this work and give encouragement to those who are carrying it on by an organized backing of influence. There is hopes of Milwaukee taking a prominent position in horticulture.

C. B. Whitnall has made arrangements with the Whitnall Floral Co. by which he retires from activity in the retail trade after March 1.

Henry Jorden is looking for a suitable locality in which to start a store. Z.

Providence, R. I.

The invitation to the florists and gardeners of Rhode Island to meet at Tillinghast's assembly rooms on Tuesday afternoon, January 22, for the purpose of organizing a club received a hearty response, there being present nearly one hundred enthusiastic representatives of Rhode Island horticulture. Officers were elected as follows: President, Timothy O'Connor; vice-president, Parquahar Macrae; secretary, Wm. H. Mason; treasurer, A. M. Rennie; librarian, F. C. Hoffman; executive committee, N. D. Pierce, Jr., J. B. Canning and S. J. Renter. A committee was appointed to petition the General Assembly for an act of incorporation. The new organization starts out with bright prospects and will undoubtedly take a prominent place among the New England clubs.

SPECIALTIES

IN BEST VARIETIES.

ROSES, from 3-inch pots.

CARNATIONS, for fall delivery.

CHRYSANTHEMUMS.
SMILAX.

VIOLETS.

Prices low. Send for list.

WOOD BROTHERS, FISHKILL, N. Y.
When writing mention American Florist.

E. G. HILL & CO.,
Wholesale Florists
RICHMOND, INDIANA.

ROSES, TREES, BULBS, PLANTS.

200,000 Strong, hardy, nursery grown Roses.
500,000 Pot Roses, Teas, China, Bourbon, etc.
Greenhouse plants of all descriptions.

100,000 Elegant Poplars, 5 to 25 feet, Carolina Aurea, Lombardy.

ONE THOUSAND CAR LOTS OF OTHER ORNAMENTAL TREES, SHRUBS, Etc.

250,000 Peach, choicest sorts.
150,000 Pear, standard and dwarf
100,000 Plum, best European and Japan.
75,000 Cherry, Morelos, Hearts, etc.
150,000 Apple, Quince, Apricot.

100,000 Nut bearing trees.
2,000,000 Small Fruits, Grapes, Currants, Gooseberries, Raspberries, Blackberries, Dewberries, Strawberries.

We occupy one and a half miles on the bank of Lake Erie. No healthier, hardier trees are grown on the continent. Catalogue and Trade List free. Lower quotations given on large lots. Write us We can do you good

42nd YEAR. 1000 ACRES. 29 GREENHOUSES.

THE STORRS & HARRISON CO., PAINESVILLE, OHIO.

Mention American Florist.

PALM SEEDS

WE GUARANTEE full germinating power & replace seeds non germinating			
	Per 1000	Per 5000	Per 10,000
Cocos Weddelliana	\$12.00	\$55.00	\$100.00
Areca lutescens	10.00	47.50	90.00
Areca rubra	10.00	47.50	90.00
Geonoma gracilis	12.00	55.00	100.00
Geonoma Schottiana	15.00	65.00	120.00
Latania borbonica	2.75	12.00	20.00
	Per 100	Per 1000	Per 5000
Corypha australis	.75	5.00	22.50
Chamaerops excelsa	.50	3.50	15.00

Pandanus Utilis

In excellent condition.
\$1.50 per 100, \$12.50 per 1,000, \$50.00 per 5,000.
Chas. Schwake, 404 E. 34th St., New York.

6,000 BEGONIA NIVEA,

AT REDUCED PRICES.

The New Everblooming Apple Blossom Begonia. We have a large stock of this grand winter blooming and summer bedding plant; it being covered with elegant panicles the whole year round, ranking it a valuable market plant. In color it is of a delicate pink when in bud, expanding through lighter shades to snowy whiteness when in full flower, giving it an apple-blossom appearance, that is unique, and what the ladies call "just lovely."

In order to make room, and to place in reach of all, we offer 6,000 plants only at reduced rates if ordered before March 1st, 1895, after which date, prices will be advanced. It is a most vigorous grower, propagates easily, and has come to stay. The plants are well branched, well established and first-class in all respects, and sure to give satisfaction. Up to date florists should secure some of this stock for their floral work.

We guarantee safe arrival in good condition, and extras added to all orders of one dollar and upwards by express. Cash with the order. 40 plants at 100 rates.

	Each	Doz.	100
From 2 1/2-inch pots	15	10	\$ 75 & 4.00
" 2 3/4-inch pots, ex strong plants	20	15	1.00 6.00
" 4-inch pots, well branched,			
full bloom	25	20	1.25 8.00
" 5-inch pots, ext. strong heavy			
plants in bloom	35	25	2.00 12.00
" 6-inch pots, too large to mail	30	25	1.50 15.00
Rooted Cuttings to order, \$20.00 per 1000			2.50
Strong stems with leaves, buds and bloom,			1.00
Large panicles, ships well			.50

J. ELLETSON,

Floral Nurseries, AUBURN, N. Y.

ORCHIDS OUR SPECIALTY.

THE FINEST STOCK AND SELECTION IN THE WORLD.

New and Rare Plants for the Stove, Greenhouse and Conservatory.

SANDER, St. Albans, England,
& Brugge, Belgium.A. DIMMOCK, Agent, care Rolker's Auction Rooms, 106 and 108 Liberty Street, New York City
Send for illustrated catalogue.

Bulbous Begonias.

LAING'S STRAIN. In separate colors.

Lilium Longiflorum, Tuberoses, Spiræas, etc. Now on hand.

Ask for prices.

HULSEBOSCH BROS., Englewood, N. J.

PALM Seed.

Orders taken now for Spring and August delivery of the following varieties germinating power 75 to 90 per cent

CROP '95 & 96.			
	100	1000	5000
Areca lutescens	\$1.25	\$10.00	\$45.00
Cocos Weddelliana	1.25	10.00	47.50
Geonoma gracilis	1.50	12.00	50.00
Latania borbonica	.35	2.50	10.00
Kentia Belmoreana	1.00	7.50	35.00
" Forsteriana	1.00	7.50	35.00
Now on hand, fresh stock:			
Erythra armata	1.70	12.50	
" dulcis	1.50	12.50	
Sabal serrulata	.50	4.00	
Washingtonia filifera	.25	2.00	
" robusta	.35	3.00	
Asparagus plumosus nanus	1.25	10.00	

J. L. SCHILLER, Rutherford, N. J.

THE WM. H. MOON CO.

MORRISVILLE, Bucks Co., PA.

Offer the following to the Trade:

DAHlias—20,000 finest and best.
CANNAS—10,000 mixed and named sorts.
HONEY-UCKLES—20,000, Evergreen, Halliana and Golden.
CLEMATIS PANICULATA—10,000, one and two years old.
CALIFORNIA PRIVET—200,000, one and two years old.
FLOWERING SHRUBS—270,000, all sizes and varieties.
DECIDUOUS TREES—500,000, for streets and lawns.
EVERGREENS—500,000, large, medium and small.
Correspondence solicited in reference to anything needed in the way of nursery stock.

PALMS.

150,000 of all the leading varieties.

FERNs.

50,000 of leading varieties.

Address **GEORGE WITTBOLD,**
1708 N. Halsted St., CHICAGO.
Mention American Florist.

STRAWBERRY PLANTS FOR SALE.

MICHIGAN GROWN PLANTS ARE THE BEST.

Bubach, Parker Earle, Haverland, Warfield and Jessie.

Vigorous plants of the above well-known varieties, shipped direct from the nursery—Lake View Fruit Farm, Gibson, Mich. 100, \$1.00; 200, \$1.50, postpaid. Special price on large quantities.

Address **CHAS. N. TRIVESS, Manager,**
635 Chicago Stock Exchange, CHICAGO, ILL.

ROOTED ROSE CUTTINGS

From choice flowering wood free of disease and well rooted.

American Beauty.....	2½ cts
Brides	1½ cts
Bridesmaids.....	1½ cts
Melcors.....	1½ cts

ROOTED MUM CUTTINGS

Choice, strong and well rooted, 1½ cts.

BONNAFFON.....	JEROME JONES,
DAILEDROUZE.....	INTER OCEAN,
LIPKINCOFF.....	QUEEN,
WHILLDIN.....	IVORY,
LINCOLN.....	DOMINATION,
VIVIAN-MOREL.....	NIVEUS,
HARRY BALSLEY.....	

KATE B. WASHBURN,

The earliest white (New), 2-inch pots, 10 cts.

If ordered sent by mail the cost of the postage must be added. No order of less than 100 cuttings will be filled at these prices.

Bassett & Washburn,
HINSDALE, ILL.

NOW is a good time to secure a strong healthy stock of the

CELEBRATED NEW ROSE

MRS. PIERPONT MORGAN

which has unmistakably grown in popularity as the season advanced.

Prices for strong plants ready for immediate delivery are as follows:

From 2 inch pots.....	per 1000	\$125.00
" " ".....	per 100	65.00
" " ".....	per 100	15.00
" " ".....	per 12	2.25
From 3-inch pots.....	per 100	18.00
" " ".....	per 50	10.00
" " ".....	per 12	2.50

Money Order Office,
Station H, Phila. **EDWIN LONSDALE,**
Wyndmoor, Chestnut Hill, Phila.

ROSES

H. P. LOW BUDDED.

LILAC Marie Legraye, pot-grown.

CLEMATIS, extra strong.

AZALEA MOLLIS, dwarf and standard.

ENGLISH IVY, 4 to 5 feet long.

SPIRAEA JAPONICA, strong clumps.

Kalmia, Rhododendron, Snowball,
and other Nursery Stock.

L. C. BOBBINK, RUTHERFORD, N. J.
Branch of the Horticultural Co., Boskoop, Holland.

ANOTHER CATALOGUE

ROOTED CUTTINGS

NOW READY.

It contains specially selected lists, well printed, nicely illustrated, free.

DAN'L B. LONG.

JOBBER FLORIST AND GROWERS' AGENT.
BUFFALO, N. Y.

The Oaks Greenhouse Co., Jackson, Mich.

Offer the following:	100	1000
A few thousand Tuberoses, 3-5	\$	\$3.00
About 500 Dracana indivisa, 3½.....	5.00	
Begonia Metallina, 3½.....	5.00	
Rooted cuttings Chrysanthemums, standard varieties.....	1.00	9.00
R. C. Marguerite Daisy, white and yellow.....	1.00	9.00
R. C. Vinca variegata.....	1.00	9.00
R. C. Carnations, Daybreak, McGowan, Portia, etc.	1.25	10.00
R. C. a quantity of La France Roses.....	1.50	12.00
If to be sent by mail add 10c per 100. Cash with order.		

REINBERG BROS.,

Wholesale Growers of all Leading Varieties of Roses and Carnations,
WILL OFFER THE FOLLOWING FOR SPRING PLANTING:

Roses in 2 1-2 inch pots.

	Per 100	Per 1000
AM. BEAUTIES.....	\$5.00	\$40.00
C. TESTOUT.....	4.00	35.00
KAISERIN VICTORIA.....	4.00	35.00
GOLDEN GATE.....	4.00	35.00
BELLE SIEBRECHT.....	4.00	35.00
BRIDESMAID.....	3.00	25.00
BRIDES.....	3.00	25.00
PERLES.....	3.00	25.00
METEORS.....	3.00	25.00

Orders for less than 50 of any one variety not accepted. **READY FOR SHIPMENT MARCH 1st.**

Rooted Carnation Cuttings.

	Per 100	Per 1000
WM. SCOTT.....	\$1.25	\$10.00
TIDAL WAVE.....	1.00	8.00
DAYBREAK.....	1.00	8.00
PORTIA.....	1.00	8.00
NANCY HANKS.....	1.00	8.00
LIZZIE MCGOWAN.....	1.00	8.00
UNCLE JOHN.....	1.00	8.00
SILVER SPRAY.....	1.00	8.00

Free of rust. Ready for immediate shipment.

Orders for less than 100 of any one variety not accepted.

Send orders to **51 Wabash Ave., CHICAGO, ILL.**

NOW READY.

MY NEW TRADE LIST FOR 1896

Roses, Carnations, Chrysanthemums, Etc.

All the NEW and CHOICE varieties, also Standard Varieties at prices to suit the times.

JOHN N. MAY,

SUMMIT,

NEW JERSEY.

HERMOSA ROSES.

FIRST SIZE.....per 100, \$5.00; per 1000, \$45.00
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HOLLAND CROWN, 2 year, strong.....per 100, 10.00.

H. P. ROSES, 2 YEAR (Budded).

All Leading Varieties.....per 100, \$10.00
CLOTHILDE SOUPERT, 8 to 13-inch, strong.....per 100, 10.00

CLEMATIS (Jackmanni and type).

Holland grown, 2 year.....12 for \$3.75; per 100, \$27.50
Holland grown, 3 year.....12 for 4.80; per 100, 38.00

HYDRANCEA P. Cr., 4 feet, strong.....12 for 1.50; per 100, 10.00

VAUGHAN'S SEED STORE, 84 & 86 RANDOLPH STREET,
CHICAGO.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, \$1.00 per 100; \$8.00 per 1000.

NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.

We are the Largest Growers of Verbenas in the country.
Our plants cannot be surpassed.

J. L. DILLON, Bloomsburg, Pa.

GERANIUMS.

At least 30 varieties. All the best of the Double and Singles grown and named, at \$15 per 1000; \$1.75 per 100.

	Per 100	Per 1000
Mme. Sallier.....	\$12.00	\$110
Rose Geraniums.....	20.00	2.25
Alternanthera p. major and aurea nana.....	6.00	.75
Cuphea platycentra (Cigar Plant).....	8.00	1.00
Feverfew Little Gem.....	10.00	1.50
Double Golden Marguerite.....	10.00	1.50
Dreer's strain Double Petunias.....	12.00	1.50
Salvia splendens.....	10.00	1.25

The above are grown in flats, in fine condition.
ROOTED CUTTINGS.
Fuchsias, named, about 30 varieties.....\$12.00 \$1.50
Heliotrope, named, 6 varieties.....8.00 1.00
Ageratum, blue and white.....1.00
The selection of sorts to remain with us. Cash with the order.

J. E. FELTHOUSE, Florist, Schenectady, N. Y.



TRY DREER'S

GARDEN SEEDS,

Plants, Bulbs & Requisites.
They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

HENRY A. DREER,
Philadelphia, Pa.

Mention American Florist.

New Extra DOUBLE PETUNIAS.

100 Rooted Cuttings, in 20 varieties, for only \$2 by mail.

CASH WITH ORDER.

S. O. STREBY,

Lock Box 77,
UPPER SANDUSKY, OHIO.

CLEMATIS.

Choice, strong home-grown plants. Leading kinds \$3.00 per dozen \$25.00 per 100.

F. A. BALLER, BLOOMINGTON, ILL.

GARDENER'S SEED AND PLANT GUIDE

From experience, tells about gardening for profit or pleasure and about The Flower and Vegetable Garden. Postpaid 5c. JNO. BAUSCHER, JR., Box 463 Freeport, Ill.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.
Subscriptions accepted only from those
in the trade.

Advertisements, 10 Cents a Line, Agate;
Inch. \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
wares pertaining to those lines ONLY. Please to
remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to se-
cure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

St. Thomas, Ont.

Christmas here was, as in most places,
dark, drizzling and dirty. The Saturday
trade was hardly up to last year, but
Monday and Tuesday were away ahead
of expectations. Roses brought \$2 a
dozen (no Beauties), with good demand;
carnations 60 to 75 cents, with the pick
of Daybreaks at \$1 per dozen; violets 25
cents. A few 'mums were still offered, but
the demand was not strong. There was
a larger sale this year than formerly in
palms and choice decorative plants, also
in azaleas.

Hugh C. McLean has just purchased
another site in the city, where he will com-
mence on March 1 with the building of a
fine block of houses, each 75x20. There
will be five houses in this new block,
which with the present houses will give
him over 10,000 feet of glass. Two of the
new range of houses will be short-span-
to-the-south, with continuous ventila-
tion. A 50-horse power boiler after the
pattern of Deere's new boilers at Riverton
will furnish the "summer in winter" by
means of hot water. A potting shed will
run across the ends of all the new houses.
A store 16x20 will be erected on the
street, with two good show windows
and cut flower cellar under, making this
quite a model establishment.

W. J. Jordan, who has been doing busi-
ness as florist in Dutton, Ont., has sold
his business there and will be in the em-
ploy of Hugh C. McLean after March 1.

LIN.



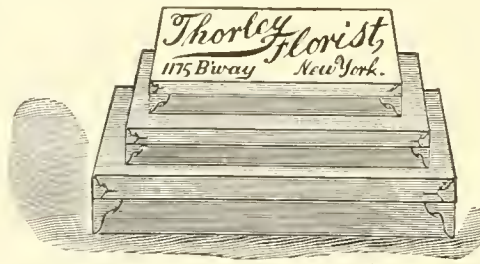
I GROW as fine a Collection of
DAHLIAS

as it possible to obtain, of both old and new
varieties. If you want a choice collection for
a special purpose, I have studied your busi-
ness and can give you varieties suitable to
your purpose.

W. W. WILMORE,

Dahlia Specialist, Box 382, DENVER, COLO.

PLEASE mention the AMERICAN FLORIST
every time you write to an advertiser.



The boxes as they appear when set up for use.

We make them in a sufficient number of sizes, including for violets, to meet all necessary
requirements.

THE NATIONAL FOLDING BOX & PAPER CO.,

NEW YORK SALESROOM:
132 & 134 Franklin Street.

315--325 Congress Ave., NEW HAVEN, CONN.

W. ELLISON,
WHOLESALE
Cut Flowers and Florists' Supplies
WIRE DESIGNS.
1402 PINE STREET,
St. Louis, Mo.

C. A. KUEHN,
(Successor to ELLISON & KUEHN.)
Wholesale Florist,
1122 PINE STREET,
ST. LOUIS, MO.

A complete line of Wire Designs.

Carnation Show.

We will have Feb. 6 sample blooms of all
the standard new varieties, which we will assist
in disseminating. Come and see them. Our Feb-
ruary list gives full particulars.

WISCONSIN FLOWER EXCHANGE.
Box 87. MILWAUKEE, WIS.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

A. & F. RÖLKER,
Down-town Wholesale Florists,
106 & 108 Liberty Street (Basement),
NEW YORK.

Cut Smilax
15 CENTS PER STRING.
THE NATIONAL PLANT CO.
CASH DAYTON, OHIO.

DAN'L B. LONG,
FLOWERS AT WHOLESALE.
Strictly Commission Business.
SUPPLIES, ETC.
LISTS FREE. BUFFALO, N. Y.

FERNS.

PTERIS TREMULA, 3-inch.....	Per 100 \$5.00
" ADIANTIFOLIA, 3-inch.....	4.00
" " 2½ inch....	2.00

These are nice bushy plants for immediate use.
JOSEPH KIFT, West Chester, Pa.

DAILLEDOUZE BROS.
CARNATION and CHRYSANTHEMUM
SPECIALISTS,
FLATBUSH, BROOKLYN, N. Y.

"The National"

Folding Flower Boxes are the best
and most convenient ever put upon
the market. They are made from
board, manufactured especially for
these goods, and made so as to resist
moisture, thereby keeping the flow-
ers fresh, and the box holding its
shape.

**THE NEW YORK
CUT FLOWER CO.,**

119 and 121 W. 23rd St., and
112 and 114 W. 24th Street,

**IS NOW
OPEN FOR BUSINESS.**

The Largest Dealers in

**CUT FLOWERS
IN THE WORLD.**

Handling flowers of all kinds in quantity
we are in a position to fill shipping orders
promptly. We shall give careful attention
to this branch of the business, and solicit
your patronage.

**WHOLESALE
FLORISTS**
JOEBERS IN
FLORISTS'
SUPPLIES,
FLORISTS'
VASES.

W. F. Mearns & Co.

METS,
BRIDES,
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.
84 Hawley Street,
BOSTON, MASS.
HORTICULTURAL AUCTIONEERS.
Always mention American Florist.

WELCH BROS..

Wholesale Florists,

NO. 2 BEACON STREET,

near Tremont St.

BOSTON, MASS.

Asparagus Plumosus Nanus.

Cut Strings, 8 to 10 feet long,

50 CENTS.

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WHOLESALE CUT FLOWERS.

SEEDS, BULBS AND ALL
FLORISTS' SUPPLIES

KENNICOTT BROS. CO. Wholesale Cut Flowers and FLORISTS' SUPPLIES,

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If you want First-Class Flowers, properly packed and delivered on time, send me your orders and you will get what you want.

We are now prepared to furnish Florists' Wire Designs and a full line of Florists' Supplies.

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Successors to J. B. DEAMUD & CO.,

CROWERS and
WHOLESALE CUT FLOWERS,
DEALERS in

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CHICAGO.

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A. L. RANDALL, Wholesale Florist,

126 Dearborn St., CHICAGO.

Agent for finest grades Waxed and Tissue Papers.

Reinberg Bros. WHOLESALE CUT FLOWERS,

51 WABASH AVENUE,

CHICAGO.

Our Roses best them all, in quality.
Headquarters for fine American Beauties.

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Wire Designs a Specialty.

59 WABASH AVENUE,

CHICAGO.

ROGERS PARK FLORAL CO., Wholesale Growers of

CUT FLOWERS,

41 WABASH AVENUE,

CHICAGO.

We are prepared to fill your orders with first-class flowers. Give us a trial order.

A. G. Prince & Co. WHOLESALE COMMISSION FLORISTS,

41 Wabash Avenue,

CHICAGO.

Consignments solicited. Prompt attention to all orders.

Wholesale Markets.

Cut Flowers.

NEW YORK, Jan. 29.	
Roses, Beauty, extra grades	10.00@20.00
" " culls	5.00@10.00
" " Perle	2.00@5.00
" " Testont	10.00@15.00
" " Cusin, Waterville	2.00@6.00
" " Bride, Bridesmaid	3.00@8.00
" " Meteor, Morgan	6.00@12.00
" " Common mixed stock	2.00@4.00
Carnations, ordinary	50@1.50
" " fancy	2.00@3.00
Violets	75@1.00
Valley	1.00@2.00
Harrisill	6.00@8.00
Daffodils	2.00
Mignonette	4.00@15.00
Roman hyacinths and paper white	1.00@2.00
Cyrtipediums	10.00@12.00
Cattleyas	30.00@40.00
Lilac, per bunch	1.00
Adiantum	1.00
Asparagus	50.00
Smilax	12.00
BOSTON, Jan. 29.	
Roses, Gentler, Niphotos	3.00@5.00
" " Perle, Horta	4.00@8.00
" " Bride, Bridesmaid, Mermets	5.00@12.00
" " Meteor	5.00@8.00
" " Beauty	10.00@50.00
Carnations	1.50@2.50
" " fancy	2.50@4.00
Violets	75@1.00
Harrisill	2.00@3.00
Paper white narcissus	2.00
Romans	2.00
Freesia	1.50
Daffodils double	3.00
" " single	1.00@2.00
Stevia, Marguerites	1.00
Mignonette	2.00@3.00
Cyrtipediums	12.00
Adiantum	1.00
Smilax	12.00
Asparagus	50.00
PHILADELPHIA, Jan. 29.	
Roses, Beauties	5.00@20.00
" " Brannons	25.00@30.00
" " best selected teas	5.00@10.00
" " seconds and small stock	6.00@8.00
" " Morgan	10.00@12.00
Carnations, general stock	1.00@2.00
" " selected and choice kinds	3.00@4.00
Harrisill	8.00@12.00
Valley	4.00@6.00
Romans and small	2.00@3.00
Violets	.75@1.50
Mignonette	2.00@3.00
Freesia	1.00@2.00
Smilax	15.00@20.00
Asparagus	50.00
Maldenhair	1.00
CHICAGO, Jan. 31.	
Roses, Beauties	25.00@50.00
" " seconds	6.00@20.00
" " Perle, Morgan, Siebrecht	4.00@5.00
" " Brides, Bridesmaid	6.00@8.00
" " Meteors	6.00@8.00
" " Testont	6.00@10.00
Carnations	1.50@2.00
" " fancy	2.00@2.50
Harrisill, callas	12.50
Valley	4.00
Violets	1.50
Roman hyacinths	2.00@3.00
Narcissus (paper white)	3.00
Hyacinths, Dutch	6.00
Narcissus Von Slon	4.00
Freesia	3.00
Smilax	12.50@15.00
Asparagus	50.00
ST. LOUIS, Jan. 29.	
Roses, Beauties long	25.00@50.00
" " select stock	4.00@8.00
" " general stock	2.00@4.00
Carnations, select	2.00@3.00
" " ordinary	1.00@2.00
Valley	3.00@4.00
Harrisill	12.50
Callas	10.00
Romans	2.00@3.00
Paper white narcissus	2.00@3.00
Mignonette	2.00@4.00
Violets single	.75
" " double	1.00@2.00
Smilax	15.00
Freesia	2.00
Asparagus	50.00
Adiantum	1.00@1.25
BUFFALO, Jan. 30.	
Roses, Beauties	20.00@40.00
" " Meteors	6.00@8.00
" " Bridesmaid, Mermets, Bride	6.00@8.00
" " Cusin, Perle	5.00@6.00
Carnations, fancy	1.50@2.00
" " common	1.25@1.50
" " short	.75@1.00
Harrisill	12.00@15.00
Callas	10.00@12.00
Romans	3.00@3.50
Valley	4.00
Violets	1.00@1.25
Thrips	3.00@3.50
Daffodils	4.00@5.00
Adiantum	1.25
Smilax	15.00@20.00
Asparagus	50.00

GEORGE A. SUTHERLAND,
Successor to PECK & SUTHERLAND,
Successors to WM. J. STEWART,
Cut Flowers and Florists' Supplies
WHOLESALE.
67 Bromfield St., BOSTON, MASS.
New England Agent for the GREAT ANTIPEST.

John I. Raynor, 49 WEST 28th STREET, NEW YORK.

SPECIAL EXTRA STOCK OF
AM. BEAUTY, METEOR,
BRIDESMAID, BRIDE.

DISBUDDED CARNATIONS.
FANCY GRADE.

CATTELYA LABIATA, splendid blooms.

THOS. YOUNG, Jr.

Cut Flowers, WHOLESALE, 43 W. 28th Street, NEW YORK.

WALTER F. SHERIDAN.

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FLORIST
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Roses Shipped to all points. Price list on application.

Edward C. Horan, 34 W. 29th Street, NEW YORK, WHOLESALE • FLORIST.

Careful Shipping to all parts of the country.
Price list on application.

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JOHN YOUNG, FINE ROSES WHOLESALE, 51 West 28th St., NEW YORK.

FRANK MILLANG, CUT FLOWERS, WHOLESALE, COMMISSION, 408 E. 34th Street, NEW YORK.

THEO. ROEHRs, WHOLESALE FLORIST 111 WEST 30TH STREET, Established 1879. NEW YORK CITY.

JULIUS LANG, (Formerly with THEO. ROEHRs.) Commission Dealer in Cut Flowers, WHOLESALE, 53 West 30th St., NEW YORK CITY.

Re Seed Trade.

AMERICAN SEED TRADE ASSOCIATION.

S. E. BRIGGS, Pres.; T. W. WOOD, 1st Vice-Pres.; ALEX. RODGERS, 2nd Vice-Pres.; A. L. DON, 1st Chamberlain; New York. Sec'y and Treas. The fourteenth annual meeting will be held at Niagara Falls, N. Y., June 9 to 11, 1896.

American Seed Trade Association.

On January 20 the executive committee of the American Seed Trade Association held its annual meeting at the Iroquois Hotel, Buffalo. There were present ex-President D. I. Bushnell of the D. I. Bushnell Company, St. Louis; President S. E. Briggs of the Steel, Briggs Company, Toronto; Vice-President Alexander Rodgers, who is president of the Illinois Seed Company of Chicago; Secretary and Treasurer A. L. Don of Weeber & Don, New York; Irwin B. Clark of O. W. Clark & Son, Buffalo; C. L. Allen of Floral Park, N. Y.; W. S. Grennell of Pierpont Manor, N. Y.

The committee fixed upon June 9 to 11, 1896, as the date and Niagara Falls as the place for the next annual convention of the association. Reports showed that the association is growing rapidly and now has a membership of more than 200.

Men interested in some of the allied trades were in Buffalo to confer with the seedsmen, notably F. D. Wolfram of the Monitor Works, Joseph Martin, Fred Cranston and F. M. Smith, all interested in the Silver Creek manufactories of mill machinery.

Warranted Seeds.

The American Seed Trade Association, and high class seedsmen generally, have for the past decade religiously stood by the NON-WARRANTY flag until the horticultural public have come to accept its conditions as fair ones, viz., that the seedsmen should not be required, at the price paid, to assume responsibility for the crop; now for 1896 come certain leading American houses and for the sake of a little cheap personal glory boldly advertise "— seeds are warranted," believing well that the ten years' stand so well maintained by the leading houses in the trade has so educated the gardening public that no individual will claim a warranty for the crop on such an adv.

Is it fair and honorable to grab at this little cheap buncombe at the risk of destroying the foundation laid by ten years of hard work by the whole trade on this line? We think not. We must believe, however, that such representations will reap a reward—but can we even hope that others will not suffer also and will not the whole trade lose much vantage ground already gained?

A ST. PAUL inventor has patented a packet filling machine, which is claimed to be capable of filling and pasting 3,000 packets per hour. It is worked by foot power.

THE Sibley Seed Co. has been incorporated with headquarters at Sibley, Ill. Capital stock \$15,000. The incorporators are J. H. Bagley, W. A. Becket, T. J. Ruff, Geo. Stockdale, Frank Skinner and C. W. Cook.

RAIN has fallen steadily in Santa Clara County, California, for the last week and is now decidedly overdone. Some of the big onion fields in the lowlands are entirely under water, and unless it dries up rapidly an immense acreage will be rotted. The same will apply also to cabbage, sweet peas and other seeds.

WE REPEAT....

WHAT WE have already said, that we regard all FLORISTS wise that take advantage of the following items:

	Trade Pkt.	Ounce		Trade Pkt.	Ounce
Salvia Splendens, -	.25	\$1.50	Cyclamen, Giganteum,	1.00	
Carnation, Marguerite,	.25	1.50	Lobelia, Crystal Palace	.50	3.00
Centaurea, Gymnocarpa,	.15	.40	Pyrethrum, Golden Feather,	.15	.40
Mignonette, Machet,	.10	\$.40	Verbena, Mammoth,	.50	2.00

WRITE FOR A TRADE LIST.

WM. ELLIOTT & SONS, NEW YORK, 54 AND 56 DEY ST.



LIVE FLORISTS LIVING PROFITS MAKE

By allowing no idle space in **Rose, Carnation**, or other benches. **GLADIOLI** can be forced without extra labor. **Plant now** and make a few **Extra Dollars**.

MAY, fine white.....\$2.00 per 100; \$17.00 per 1000

EUGENE SCRIBE, pink 3.00 "

AMERICAN HYBRIDS..... 1.00 " 8.00 "

Mixed, all colors..... 1.00 " 7.00 "

Cash please.

CUSHMAN GLADIOLUS CO., Euclid, O.

ASTER SEED.

SEMPLE'S STRAIN of Asters, the best and only strain for florists to make money out of the cut flowers. Large flowers like chrysanthemums, long stems and exquisite colors, excellent for growing inside in summer. Flowers bringing from \$1.50 to \$3.00 per dozen.

Read the following from Randolph & McClements:

MR. SEMPLE, Bellevue, Pa.—"The Aster Seed purchased from you produced the finest flowers I ever saw. Under glass in summer they will make the best summer flower we can get, producing flowers 4 to 5 inches in diameter." Yours truly,
RANDOLPH & McClements.

Mixed Seed, three kinds, Pink, White and Lavender. Separate colors all sold. Seed all grown in 1895.

JAMES SEMPLE, Box 2, BELLEVUE, Allegheny Co., PA.

NORTHROP, BRASLAN, GOODWIN CO.

Being **GROWERS** we are in a position to supply **Seeds of First-Class Quality** and to make **specially low prices**. A trial will convince those who have not yet found this out.

NORTHROP, BRASLAN, GOODWIN CO.

20 to 28 Hennepin Ave., MINNEAPOLIS, MINN.

55, 57 & 59 N. Jefferson St., CHICAGO.

Choicest Florists' Seeds

And a full line of **Spring Bulbs**, offered in our New 1896 Trade List, free on application.

Florists' Supplies

In largest assortment and best quality. Illustrated Wholesale List free.

August Rölker & Sons

136-138 W. 24th St., New York.

Mention American Florist.

WE WANT ROOM.

For the next 10 days only, I offer fine healthy and well rooted cuttings of Carnations:
Rose Queen, \$3.00 per 100; \$25.00 per 1000. Wm. Scott, \$1.50 per 100; \$10.00 per 1000. Daybreak, \$1.50 per 100. Cash with order. Satisfaction guaranteed.

FRED. SCHNEIDER, Florist,
751 Crawford St., Cleveland, O.

Zirngiebel Asters and Pansies

are without doubt the best in cultivation.

ZIRNGIEBEL'S WHITE, for early.

SEMPLE'S WHITE and SEMPLE'S ROSE, for

late. Also Early Dwarf White Stock. All

in Trade Packets, at one dollar each.

DENYS ZIRNGIEBEL, Needham, Mass.

Begonias, Gloxinias.

500,000 Bulbs of our Noted Strain for Sale.

PALMS, AZALEAS, FICUS, ARAUCARIAS, SWEET BAYS, DUTCH BULBS, LILY, ETC.

The Best Is Always the Cheapest. Write for Prices.

TOEFFAERT & GEE, GENOBRUGGE les GAND

And 36 Calharine St., Liverpool, England.

All Quality, Small Profits, Perfect Packing, Prompt Attention, Low Freight

SMILAX from flats, 25c per 100 by mail; from 2 inch pots, \$1.50 a 100; dry roots, \$1.00 a 100. **GERANIUMS**, 2-in pots, \$2.25 per 100. Send for samples. Cash with the order.

FRED. BOERNER, Cape May City, N. J.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

WE HANDLE
ONLY

Seeds

that are especially grown for a critical Market Garden and Florists' trade. There are tons of seeds grown to sell cheap. You don't want them if your living or your satisfaction in life depends on the result. In our

GARDEN AND FARM ANNUAL FOR 1896

you will notice the illustrations are from direct photographs. They stand for Truth and Honesty and Honest Seeds back them up at Honest Prices. It is full of meat, written for business and to business buyers it is sent free. We also issue a Wholesale Quarterly for Market Gardeners and Florists.

JOHNSON & STOKES, 217 & 219 Market Street,
PHILADELPHIA.

Watson's English Mushroom Spawn.



THE W. P. BRAND.

\$6.50 PER 100 LBS.

G. C. WATSON, Wholesale Seedsman,
43 North 10th Street, PHILA., PA.

The BEST SEEDS that GROW are from Philadelphia—**BURPEE'S**

A handsome New BOOK of 184 pages (price 10 cents) mailed FREE to planters who intend to purchase.

WE ARE HEADQUARTERS ON

**BULBS FOR FORCING,
FLOWER SEEDS FOR FLORISTS
ENGLISH MUSHROOM SPAWN.**

Special prices on application.

JOHN GARDINER & CO., Seedsman,
631 Market St., Philadelphia, Pa.

WE SELL SEEDS

Florists' Flower Seeds and Sweet Peas
a specialty. Highest quality.
Special prices.

WEEBER & DON,
Seed Merchants and Growers,

114 Chambers Street, NEW YORK.

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OF THE
AM. SEED TRADE ASSOCIATION
\$2.00,

In either stiff or flexible cover.

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P. O. Drawer 164. CHICAGO.

EXTRA CHOICE FLOWER SEEDS.

List free on application.

FRED. ROEMER, SEED GROWER,
QUEDLINBURG, GERMANY.

NEW CROP

Cibson's Progressive Verbena Seed, an advance on all previous productions. Well grown specimen flowers of many of the kinds 1 1/4 inches across and easily span a silver half dollar, and of the most intensely brilliant and varied colors. In fine mixture per trade pkt. 25c; 1/4 oz. 30c; per oz. \$3. White Plume, separate, per trade pkt. 30c; 1/4 oz. 40c; per oz. \$4. Purple, with distinct white eye, per trade pkt. 30c. Trial pkt. 10c, either kind.

Petunia Cal. Giant, finest selection, per 100 seeds 60c. Single fringed, Dreer's selected stock, per 1000 seeds 50c. The Wonderful Dakota Primrose, 2 to 4 inches across, 100 seeds 10c. Scabiosa Snowball (pure white) and mixed colors, per pkt. 5c; trade pkt. 25c. Dwarf French, gold striped Marigold, pkt. 50c; trade pkt. 25c. Verbena stock plants, 3-in. including latest novelties, labelled, \$1; mixed \$3; from flats, labelled, \$2.50; mixed \$2; rooted cuttings 90c per 100; \$8 per 1000.

No disease. We grow the largest Verbenas known. Variegated Vincas, strong field-grown, 3-inch 5 to 8 shoots, \$3; nice young plants, flats, \$2; rooted, \$1 per 100, \$5 per 1000. The beautiful new Star Camas, the set of 15 magnificent kinds, \$4.3 and 4-inch. Dry roots, single eyes, \$6 per 100 all named. Mixed Crozy Seedlings, dry \$3 per 100. For other interesting specialties see descriptive list, gratis.

All mailable stock sent post free

And every risk assumed by me.

While good satisfaction I guarantee,

Your continued favors is my plea;

Address cash with order, please.

Very truly yours for service,

J. C. CIBSON, Woodbury, N. J.

Mention American Florist.

CHOICE SEEDS.

VERBENA GRANDIFLORA.

An exceedingly fine collection of Giant flowering varieties, flowers one inch in diameter of the most showy colors. My customers write that this is the finest strain of Verbenas they can get; requires no better evidence of superiority. Every florist should sow of it. 1 per trade pkt., 25c.; 3 pkts., 60c.; 6 pkts. \$1.00.

JOHN F. RUPP, Shiremansdown, Pa.

Cinerarias and Calceolarias—Strong, healthy stock in all the brightest colors. Cinerarias, 3-inch, \$1.00 per 100. Calceolarias, 4-inch, \$1.00 per 100. Calceolarias, 3-inch, \$1.00 per 100. Azaleas, large plants full of bud, 65 cts. each.

S. WHITTON & SONS, Wholesale Florists,
City and Green Sts., Utica, N. Y.

FLOWER SEEDS FOR PRESENT SOWING.

Trade pkt. 1/2 oz.
Ampelopsis Veitchii 10 \$.20
Alyssum, Sweet 10 \$.20

ASTERS.

Victoria, white, pink, crimson light blue, each 25 2.50
Same, all colors mixed 25 2.00
Truffaut's, separate colors 25 2.00
All color mixed 25 2.00
White Branching 25 2.00
Giant Comet, white 25 2.00
Cosmos, early flowering hybrids, new 25 2.00
Daisy, Vaughan's Mammoth mixed 25 2.00
Mammoth white 25 2.00
Extra choice mixed 25 2.00
Lobelia Speciosa, running 10 1.00
Crystal Palace Compacta 25 3.00
White Gem 25 2.00
Golden Gem, yellow leaves 25 2.00
Musk Plant 10 1.00
Mignonette Mache 10 1.00
Musa Ensete, 100 seeds, \$1.50 10 1.00
Pansy, Giant mixed 50 5.00
Vaughan's International Mixed 50 10.00
Trimardeau mixed 10 2.00
Petunia Hybrid, best dbl. large flower 1.00 1.00
Best large flowering single 1.00 1.00
Phlox, Snowball 25 2.50
Fireball 25 2.50
Stocks, large flowering Ten Weeks, white, pink, crimson, light blue, dark blue, any 25 2.50
Best mixed 25 2.50
Snowflake for forcing 25 2.50
Verbena hybrida, fine mixed 10 1.50
Extra choice mixed 25 1.50
Mammoth, mixed 25 2.00
Fordhook Mammoth 25 2.00
"Vaughan's Best" mixture is better than any 25 3.00
White 25 1.50
Defiance, scarlet 25 2.00
Striped 25 2.00
Purple 10 1.00
Vinca rosea, alba, alba pura or mixed, each 10 1.00

VAUGHAN'S SEED STORE,

NEW YORK:

26 Barclay St.

CHICAGO:

P. O. Box 688.

Mammoth Verbenas.

New, large-flowered, very fine quality.

Per Ounce, \$1.50.

CHOICE FLOWER SEEDS

For Florists.

Price List free on application.

HERRMANN'S SEED STORE,

413 E. 34TH STREET,

Near Long Island Ferry, NEW YORK.

CYCAS REVOLUTA.

Orders booked now for fresh imported stems, fronds and roots cut off; best long-leaved variety. Delivery from March 1st. Cultivated Cycas always on hand, rooted and well established, at low prices.

Lil. Auralum, Spec. Rubrum and Album, Etc.

Iris Kämpferi, in 100 choice varieties.

Japanese Maples, in best varieties.

Camellias, Pæonies, Tree Ferns, Rhapis, Etc.

Araucaria excelsa, choice cultivated stock at lowest prices.

For general Japanese stock apply to

F. Gonzalez & Co.

303 to 312 Wayne St., SAN FRANCISCO, CAL.

EXTRA

Choice Imported Flower Seeds, only small selection of the best varieties for Florists' use.

J. L. SCHILLER, Rutherford, N. J.

PANSY SEED.

THE JENNINGS STRAIN OF FINEST AMERICAN CROWN PANSIES,

In pkt. of 2500 seeds \$1.00, very finest mixed, all colors. Large flowering plants all sold.

E. B. JENNINGS, Pansy Grower,
Lock Box 251 Southport, Conn.

Worcester, Mass.

The only social event of any importance this last week was the Light Infantry ball and that had no very noticeable effect on trade. The palm decorations were arranged in good taste and were quite elaborate; F. H. Wesson was the decorator. No especial change in the general run of trade since my last notes, we are getting very fine flowers and selling them at good prices, and there is no noticeable surplus. A. H. L.

Greenhouse Building.

Northampton, Mass.—Smith College; range of six houses with potting room and botanical workshop.

Cromwell, Conn.—A. N. Pierson; one commercial house.

West Boylston, Mass.—W. B. Warner; two commercial houses (in spring).

Newport, R. I.—Richard Gardner; three commercial houses.

St. Johnsville, N. Y.—A. Smith, one small commercial house.

CARNATIONS.

Rooted Cuttings.

Perfectly clean and healthy, and will be well rooted when sent out.

50,000 ready Jan. 25 and later.

VARIETIES:

DAYBREAK, WM. SCOTT, MCGOWAN, PURITAN, SILVER SPRAY, TIDAL WAVE, MME. ALBERTINI, EMILY PIERSON, PORTIA, HELEN KELLER, at \$1.50 per 100; \$10 per 1000.

BOUTON D'OR, best yellow, \$3 per 100; \$25 per 1000.

TERMS CASH WITH ORDER.

MAGNUSON & PEARSON,
Bowmanville, Station X, CHICAGO.

Rooted CARNATION Cuttings

Wm. Scott, Daybreak,
L. McGowan, Thos. Cartledge
and Portia, ready now.

10,000 plants of MRS. FISHER, rooted in October and now in beds; the best white for summer blooming, \$15.00 per 1000.

Get my list and prices before ordering.

J. J. STYER, Concordville, Pa.

ELDORADO

The best YELLOW CARNATION in this locality; bears large, well-formed blooms on strong stems. Winner of two first prizes Penna. Hort. Show, Nov. 1895. Flowers brought \$6.00 per 100 whole-sale at Christmas.

Rooted Cuttings \$5 per 100; \$40 per 1000.

JOHN WELSH YOUNG, Germantown, Pa.

50,000 Rooted Cuttings of the leading market varieties of

CARNATIONS.

Also thousands of Rooted Cuttings and Stock Plants of sixteen of the newest and best premium varieties of CHRYSANTHEMUMS, all at the lowest possible prices for cash. Address

MRS. GEO. R. FRAVELL, Marion, Ind.

AT BOSTON ONCE AGAIN.

CARNATIONS

DELLA FOX and ANNIE H. LONSDALE,

reappeared at the Boston Flower Market on Jan. 18th, 1896, after an absence of one year; created quite a stir and much admiration among the growers of that locality, and were in charge of W. W. Tailby, our eastern Agt, who booked orders for the one day for about 10,000 rooted cuttings for March delivery. We exhibited plants as well as blooms for the benefit of those who are not able to see them as grown by us. We do not need to repeat here that they are the most prolific as well as the strongest growers and making the longest stems of any carnation in cultivation.

COME AND SEE THEM.

One Hundred Dollars in Cash Premiums will be offered for the best 50 blooms of **DELLA FOX** in the fall of 1896—divided in the four largest cities in the U. S.

ROOTED CUTTINGS. Price: Less than 100, \$12.00 per 100. 100 @ \$10.00 per 100. 1000 @ \$75.00 per 1000. READY MARCH 1st, 1896. No orders will be booked unless cash accompanies order or satisfactory reference given. Sample cut blooms will be sent to florists' clubs only on application.

MYERS & SAMTMAN, Wyndmoor, Chestnut Hill, Phila.

HERR'S CARNATIONS.

ROOTED CUTTINGS

that will give good results, because they are taken from healthy stock, and will be well rooted when sent out.

VARIETIES—McGowan, Mrs. Fisher, and Alaska, the best of all whites. Daybreak, Scott, Aurora, Sweetbrier, Rose Queen, Peachblow, Dorner, Stuart, Portia, Jubilee, Buttercup, Eldorado, Kitty Clover, Keller, Iago, and Meteor, the best of all dark ones. Thomas Cartledge and Wave; also all the Novelties, including **Annie Lonsdale** and the hit of the season **DELLA FOX**.

Don't place your order before writing to me. I have fourteen large houses full of Carnations and think we can make a deal. In asking for prices please state how many you will want of each variety and when they are to be delivered.

L. B. 496. **ALBERT M. HERR, LANCASTER, PA.**
Mention American Florist.

Crimson Sport Carnation.

This new carnation originated with us six years ago and has been thoroughly tried before offering it to the trade. Crimson Sport, as its name will imply, is a sport from Unique, which was a sport from Lydia. Crimson Sport has the strong, healthy growth of its parent, very large crimson flowers, free from rust and disease, very prolific, long, stiff stems, perfectly healthy growth, a good shipper, a good keeper and all in all the best crimson carnation now in cultivation. We say this after growing it several years and comparing it with all the recent introductions and old varieties.

Having plenty of stock our cuttings will be taken from perfectly healthy plants that have not been forced or propagated to death, as is often the case.

Call and see it growing or send for carnation circular of this and other varieties.

ROOTED CUTTINGS, \$1.50 per dozen; \$10.00 per 100; \$60.00 per 1000.

J. L. DILLON, Bloomsburg, Pa.

CARNATIONS for 1896

Eldorado	5	46
Robinson	"	"
Guthrie	"	"
Unc. Jno	2	18
McGowan	10	1250
Fisher	"	"
Sweetbrier	2	15
Scott	"	"
Cartledge	"	"
Daybreak	"	"
Portia	100	1250
Buttercup	4	15
Orange Blossom	"	"
Alaska	10	25

VIOLETS

Parquet	40
Campbell	1

CHRYSANTHEMUMS

Eldorado	"
H. W. Rieman	"

EDWARD SWAYNE, CARNATIONIST

Handwritten notes:

- Ed. 5 46
- Robinson 16 1/2
- Guthrie 16 1/2
- Unc. Jno 18
- McGowan 10 1250
- Fisher 15
- Sweetbrier 2 15
- Scott 1
- Cartledge 1
- Daybreak 1
- Portia 100 1250
- Buttercup 4 15
- Orange Blossom 1
- Alaska 10 25

Handwritten text:

No take pleasure in getting 25 new carnations, indicating who show a like to draw your attention particularly to **Crimson Sport**, **Eldorado** which we believe is destined to take the lead in place among yellows, as it has shown up equally well on both sides and in the market being up double the price of ordinary varieties, and **Parquet** violet, which is making quite a stir in New England and of which we have very light clean stock.

Signature: Edward Swayne

Try EDITH FOSTER,

NEW WHITE CARNATION

(Offered for the first time.)

STOCK LIMITED.

Has been TESTED THREE YEARS. Is early and productive. Flowers medium to large, of good form and substance, very fragrant, stems long, habit of plant, ideal.

COME AND SEE IT.

Watch for it at the American Carnation Society's Exhibit at New York in February.

Send for descriptive price list of **NEW AND TESTED CARNATIONS.**

PETER FISHER, Ellis, Norfolk Co., Mass.

IVORY, NEW WHITE CARNATION.

Closely resembling Wm. Scott in growth of plant and abundance of bloom. Flowers pure ivory white, of good size and fine form.

ROOTED CUTTINGS ready March 1st, \$10.00 per 100; \$75.00 per 1000.

Send for complete price list.

GEO. HANCOCK & SON, Grand Haven, Mich.

CARNATIONS

50,000 ROOTED CUTTINGS now ready; all taken from good healthy plants:

THOMPSON, a good clear pink, similar to Scott. CARTLEDGE, SCOTT, DAYBREAK, BUTTERCUP, PORTIA and MCGOWAN. Write for prices.

THOMPSON BROS., Kennett Square, Pa.

Always mention the American Florist when writing to advertisers.

Garnation Orders

BOOKED NOW.

Good, clean, well-rooted stock. NO RUST.

	Per 100	Per 1000
BRIDESMAID.....	\$5.00	\$50.00
METEOR.....	5.00	40.00
STORM KING.....	5.00	40.00
UNCLE JOHN.....	3.00	25.00
STUART.....	3.00	25.00
E. A. WOOD.....	3.00	25.00
GOLDFINCH.....	4.00	35.00
WM. SCOTT.....	2.50	20.00
DAZ ALBERTINI.....	3.00	25.00
DAYBREAK.....	3.00	25.00

CHRYSANTHEMUMS.

	Each	Doz.	100
Mrs. W. C. Egan, new (ready March 1).....	\$.50	\$5.00	\$50.00
Tippacanoe, new (ready March 1).....	.50	5.00	50.00
Amaranth, new (ready March 1).....	.50	5.00	50.00
Mr. E. M. Bigelow.....	1.00	8.00	
Mrs. S. T. Murdock.....	1.00	8.00	
Oakland.....	1.00	8.00	
Major Bonnation and other choice older standard sorts.....	.75	5.00	

Send for descriptive trade list.

F. DORNER & SON,
LA FAYETTE, IND.

The Crack Carnations:



SCOTT, ALBERTINI,
DAYBREAK, MCGOWAN.

Selected Cuttings, well rooted in sand and soil, delivery February 15th and later, \$2.00 per 100; \$15.00 per 1000.

Send your order at once, with cash, to get these figures. . . .

ALEX. McBRIDE,
ALPLAUS, N. Y.

CARNATIONS!

The two leading varieties

Alaska and Minnie Cook.

Buy from the originator and procure genuine stock. CUTTINGS NOW READY.

— ALSO —

ROSE QUEEN, DAYBREAK, WM. SCOTT,
VAN LEEUWEN, TIDAL WAVE, Etc.

Write for price list.

MCCORNAC & CO., Paterson, N. J.
Successors to H. E. CHITTY.

Eldorado, Kitty Glover

The best YELLOW CARNATIONS to grow for profit. ROOTED CUTTINGS now ready, @ \$5.00 per 100. Also 30,000 strong rooted cuttings of suitable kinds for summer bloom. LADY CAMPBELL VIOLETS, rooted runners, @ \$1.00 per 100; \$8.00 per 1000.

W. R. SHELMIER,
Chester Co., AVONDALE, PA.

CARNATIONS—Rooted Cuttings.

DAYBREAK, TIDAL WAVE, SILVER SPRAY, LIZZIE MCGOWAN LOUISE SINGLER, \$2.00 per 100; \$15.00 per 1000.

GERANIUMS—Rooted Cuttings.

\$1.50 per hundred. 2-inch pots, \$2.50 per hundred.

C. LENGENFELDER,
Berdeau and Western Ave., CHICAGO.

DO YOU WANT CARNATIONS?

If so, why not GROW the BEST?

50,000 ROOTED CUTTINGS, including Daybreak, Wm. Scott, Goldfinch, Lizzie Gilbert, Emily Pierson, Lizzie McGowan, Tidal Wave, S. Spray, Hinz's White, &c.

Can do you justice in quality and prices. Write me before you buy. Address CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich

CARNATIONS.

Selected Cuttings

GROWN FROM

Selected Stock Plants

PINK—Bridesmaid, Triumph, Scott, Della Fox, Rose Queen, Albertini, Daybreak.

WHITE—Storm King, Alaska, Annie Lonsdale, McGowan.

RED—Meteor, Jubilee, Portia.

YELLOW—Goldfinch, Kittie Clover, Eldorado.

VARIEGATED—Helen Keller, Amazinda, Minnie Cook.

CLEAN STOCK AT FAIR PRICES. SEND FOR TRADE LIST.

THE COTTAGE GARDENS, Queens, N. Y.

CARNATIONS—Rooted Cuttings.

STORM KING, from sand or soil,	\$5.00 per 100; \$40.00 per 1000
BRIDESMAID, “ “	5.00 “ 40.00 “
METEOR, “ “	5.00 “ 40.00 “
SCOTT, “ “	2.00 “ 15.00 “
MCGOWAN, “ “	2.00 “ 15.00 “
ALASKA, “ “	5.00 “ 40.00 “

CASH WITH ORDER, PLEASE.

CHAS. H. ALLEN, Floral Park, N. Y.

ROOTED GARNATION CUTTINGS.

If you want to be successful in growing good flowers that will bring paying prices get your cuttings from prize winners. Our blooms are bringing the highest prices and we have been unable to supply the demand. We received a gold medal at the Atlanta flower show for best collection and all the first premiums on the schedule (7) at the same show; four first premiums at the Madison Square Garden show, New York, where our flowers came in competition with those from the best growers in the country; likewise in Baltimore and Cincinnati.

We can fill orders for 100 or 50,000 of all the best varieties up to date and guaranteed free from rust, fine, vigorous, well-rooted cuttings.

Let us know your wants and amounts and we will give you prices which we believe will be satisfactory for high class plants.

Be careful in selecting your stock as this is the foundation for either success or failure.

Send for price list.

BOX 57.

H. WEBER & SONS, Oakland, Md.

50,000 CARNATIONS ROOTED CUTTINGS

Now Ready

Positively clear of RUST. Send for price list.

William Swayne,
P. O. Box 226. KENNETT SQUARE, PA.

THE BEST

WHITE ALASKA PINK SCOTT
CARNATIONS

HEALTHY STOCK NOW READY.

C. PESENECKER & SON, 290
JERSEY CITY, N. Y.

NEW BISMARCK APPLES.

1 and 2 years old, for 3 months.

CH. KOEHLER, Five Points Nursery,
Oxford Church P. O., Phila., Pa.

CARNATIONS

Orders solicited for ROOTED CUTTINGS.

KOHINOOR takes the lead.

Other varieties of the Standard sorts at standard prices. All healthy and strong.

C. J. PENNOCK,
The Pines. KENNETT SQUARE, Chester Co., PA.

CARNATIONS PEACHBLOW.

Rooted Cuttings ready April 1st, '96, \$5.00 per 100, and \$45.00 per 1000.

Book your orders early and be sure that you will get them. Sample blooms sent free.

ESTATE OF M. A. HUNT, Terre Haute, Ind.

TWO EXCHANGE—15,000 strong-rooted cuttings of Carnations White Dove for Bridesmaid, Triumph, Della Fox, Rose Queen, Daybreak, Albertini, Storm King, Alaska, Anna Lonsdale, Meteor, Portia, Goldfinch, Kitty Glover, Eldorado, Amazinda, Minnie Cook, Lizzie Gilbert. P. S. We are still booking orders for growing for 1c each. MORRIS FLORAL CO., Morris, Ill.

Grand Rapids, Mich.

Society is taking a rest after the holidays, and so are the florists. New Years never amounts to much, and was no exception this year. The Elks celebrated in their hall New Years eve with an elaborate banquet and stage performance. Henry Smith furnished the plants and had several handsome mounds and banks. Creelman trimmed the arches and pillars, as well as the tables, using 175 strings of smilax. Each plate had a daisy favor (margarite), significant of "Daisy lodge." The churches did very little trimming at Christmas. Crabbs & Hunter had St. Mark's as usual, and Renwick the Fountain street Baptist.

Eight hundred invitations were sent out, and six hundred responded to the swell party at the Morton House New Years night. The parlors were trimmed, as was also the large dining room, with palms, ferns and smilax; not a single cut flower was used anywhere. Creelman did the trimming.

Flowers are getting more plentiful, although we are having very little sun. Chapman is cutting the best Daybreak and Spray carnations ever seen here, and ships a great many to Chicago. His returns make the retailer envious, though he cannot boast, as do Hopp & Lemke, of receiving \$11 per hundred (?) from their commission man at Christmas, and they were sold in Chicago too.

Jas. Hancock, Grand Haven; F. J. Meech, Charlevoix, were recent visitors. Wm. Scott has moved into the city again. CREELMAN.

Sharon, Pa.

The question whether it pays to grow orchids for commercial purposes has been most successfully solved by Mr. M. I. O'Brien, who, besides his local trade, finds an ever-increasing demand for these flowers from outside places, especially from Pittsburg. Mr. O'Brien's success in growing orchids is exceptional.

The most notable event which took place recently was the banquet and hall given a millionaire iron manufacturer at his handsome mansion.

The decorations for the occasion were carried out on a most elaborate scale, among other things orchids and choice roses having been used in great number. Mr. O'Brien took charge of the decoration, and it is needless to say did ample justice to it.

Mr. John Mueher has erected two carnation houses, each 20x150.

Mr. O'Brien has added one more carnation house 20x110, his whole plant covering now 15,000 feet. HOMO.

BETTER THAN EVER. CHEAPER THAN EVER.

CHRYSANTHEMUMS.

(Ready February 1st.)

APOLLO—Gracefully incurved yellow, late, fine form, good stem and foliage. Free grower, always produces perfect flowers, height 3½ feet. A No. 1 commercial variety, and a grand single stem pot plant. Strong, healthy plants from 2-inch pots, 20 cts. each; \$15.00 per 100. 25 at 100 rate.

MRS. J. M. ATHERTON—First-class certificate at Atlanta. Large white, spherical Chinese, in fact the largest and best white of this class surpassing Miss Gladys Spaulding in every respect. Extra stout stem and large handsome foliage up to flowers. Height 3 to 4 feet. Excellent pot plant and commercial cut flower variety. From 2-inch pots, 25 cts. each; \$18.00 per 100.

MRS. S. T. MURDOCK—The best commercial pink and **PHILADELPHIA**, \$7.50 per 100. The following varieties at \$2.50 per 100; 50 at 100 rate. Bonafon, Minerva, C. Chalfant, Marlon Henderson, Comrades, Niveus, Marie Louise, Ivory, Queen, Good Gracious, Lady Playfair, Pres Wm R. Smith, Mrs. J. Geo. Hs. Enfant des deux Mondes.

Nothing but vigorous, cool grown plants sent out.

NANZ & NEUNER, Louisville, Ky.

Mention American Florist.

New * Chrysanthemum IVOIRE ROSE.

A Sport from Ivory. Without doubt the best all round variety grown for general purpose. In color it is a beautiful silvery pink. **NO GROWER SHOULD BE WITHOUT IT.**

We offer plants from 2-in. pots, March 1st delivery, at \$3 per doz.; \$20 per 100.

ORDERS BOOKED AND FILLED IN ROTATION.

JOHN BREITMEYER & SONS, DETROIT, MICH.

TWO BEAUTIFUL NEW CHRYSANTHEMUMS

GRETCHEN BUETTNER.

A large, beautiful white of great depth; distinct in color and form. Strong stem and fine foliage. 3½ ft. Crown bud. Certificate of Merit Horticultural Society, Chicago. First Class Certificate N. C. S. (See AM. FLORIST, Nov. 16)

\$5.00 PER DOZEN; \$35.00 PER 100.

READY MARCH 1, 1896.

MRS. E. BUETTNER.

A beautiful clear yellow reflexed flower, in form like Morcl, with excellent stem and foliage. Late. 3½ feet. Crown bud.

First Class Certificate N. C. S.

\$4.00 PER DOZEN; \$25.00 PER 100.

ORDERS BOOKED NOW.

E. BUETTNER, Park Ridge, Ill.

PINK IVORY,

(MISS AGNES L. DALSKOV.)

Young Plants, \$2.00 per Dozen; \$10.00 per 100.

ORDERS BOOKED NOW FOR DELIVERY MARCH 1st.

M. HANSEN, New Durham, N. J.

OUR NEW CHRYSANTHEMUMS

FOR 1896

Have been fully indorsed by the
Chrysanthemum Society
of America.

Descriptions and prices free on application.

NATHAN SMITH & SON.

Adrian, Mich.

New Seedling CHRYSANTHEMUM D. G. HUGHES.

First Premium for best yellow New York
Florists' Club Exhibition, Nov. 25, '95.

A beautiful clear yellow, flower incurving, and globular, when fully developed 22 inches in circumference; foliage and stem perfect. Fine keeper and shipper. Midseason.

READY MARCH 15TH.

\$3.50 PER DOZ.; \$25.00 PER 100.

Cash or satisfactory reference with order.

JOHN WHITE, Waverly Place, Elizabeth, N. J.

CHRYSANTHEMUMS.

80 New Varieties, including

Miss M. M. Johnson, J. E. Lager, Philadelphia Minerva, Marie Louise, J. H. Troy, Mrs. Henry Robinson, Sunrise, Miss W. Pitcher, John Shrimpton, Royal Windsor, Mrs. S. T. Murdock, H. W. Klemm, Miss F. Pullman and Zulu. Fifteen plants for \$1. Send for catalogue. Address

M. B. LITTLE, Clens Falls, N. Y.

CHRYSANTHEMUM Betty Bock.

A fine incurved flower of good medium size, clear salmon pink, with fine stem and foliage; an ideal cut flower or commercial variety. In fine condition from November 1st to end of month.

First-class Certificate of the N. C. S. and from the Cincinnati F. S.

TO BE SENT OUT MARCH 1st, at 35 cts. each;

\$3.50 per dozen; \$25 per 100.

Description of this and other varieties free on application.

THEO. BOCK, Hamilton, O.

Ismene Calantha,

OR WHITE AMARYLLIS.

EXTRA SELECT BULBS.

Very profitable for forcing
or outdoor blooming.

\$2 per dozen; \$15 per 100; \$125 per 1000.

Also SAGOS, with from 6 to 36 leaves. Will exchange for Tuberous Begonias, Gloxinias and double white Primulas.

L. HEINL, Terre Haute, Ind.

Palms & Ferns.

Our 17 collection, 3 & 4-inch \$3, 34 for \$5; 10 4 & 5-inch \$3 50, 20 for \$6; 6-in. for \$5. All good selected varieties. Special sale: Choice FERNS, \$5.00 and \$6.00.

ROSES AND GERANIUMS, LABELS, MOSS, ETC.

WILLIAMS & SONS CO., Batavia, Ill.



New Seedling Chrysanthemum WM. SIMPSON.

Certificate of Chrysanthemum Society of America, November 2d, 1895.
First Premium for best Pink American Seedling, Pennsylvania Horticultural Society Exhibition, November 5th, 1895.

Certificate of Merit, Pennsylvania Hort. Society, November 5th, 1895.
Silver Medal for best American Seedling, Pennsylvania Horticultural Society, November 5th, 1895.

See Garden and Forest, - Nov. 20th, page 465.

" Florists' Exchange, - Nov. 23d, " 1144.

" American Gardening, - Dec. 14th, " 415.

" American Florist, - Jan. 25th, " 652.

It is the **EARLIEST LARGE CHRYSANTHEMUM GROWN.** Has been cut as early as Oct 15th; flowers measuring 11 inches in diameter. A good strong healthy grower, stiff stem, 4 to 5 feet high, with clean foliage.

Will be sent out March 15th, 1896. Price to the trade,

\$5 00 per dozen; \$35.00 per 100; \$200.00 per 1000.

JOSEPH HEAGOCK, Wyncote, Pa.

And for sale by Henry A. Dreer, 711 Chestnut Street, Philadelphia; Henry F. Michell, 1018 Market Street, Philadelphia; Geo. C. Watson, 43 N 10th Street, Philadelphia; E. G. Hill & Co., Richmond, Ind.; Nathan Smith & Son, Adrian, Mich.; The Cottage Gardens, Queens, L. I., N. Y.; Henry G. Staufen, Haverford, Pa.; A. Blane, Philadelphia, Pa.

When writing mention AM. FLORIST.

NOVELTIES For FLORISTS and SEEDSMEN.

ROSES—White Rambler, Golden Rambler, New Climbing Meteor and Carmine Pillar.

CRIMSON RAMBLER—\$3.00 per 100. Field grown, \$15.00 per 100. Extra fine plants, 3 to 5 feet high, \$25 per 100. Other roses at low prices. Send for list.

SPIRÆA ANTHONY WATERER—The Crimson Spiræa. The Ideal Pot Plant for Florists. Introduced last year at \$2.00 per plant, our price to-day \$3.00 per 100.

BULBS—Chinese Sacred Lilies, \$4.00 per 100. Lilium Candidum, fine bulbs, \$2.00 per 100. L. Longitiorum, \$2.00 per 100. L. Speciosum Album, \$4.00 per 100. L. Spec. Rubrum, \$5.00 per 100. L. Auratum, \$3.00 per 100. All other bulbs.

CANNAS—12 New Cannas, our own raising, \$6.00, warranted satisfactory or money refunded. Crozy's Cannas of '94, 20 cts each; set of 20, \$3.00. 50 named cannas, 50 sorts for \$5. French Cannas, \$12 per 100.

DAHLIAS—All the latest introductions. Mrs. Pearl the white Cactus Dahlia, \$10 per 100. Nymphaea, the pink cut flower Dahlia, \$7 per 100. Mixed Dahlias, \$1 per 100.

IMPERIAL MORNING GLORIES—Double and single flowers, 6 inches. Seed, \$5, \$10, \$20 and \$40 per pound.

FANCY FLOWER POTS AND JARDINIÈRES—Largest assortment in the country. Send for catalogue.

A. BLANC & CO.,
PHILADELPHIA, PA.

**AZALEAS,
PALMS,
ARAUCARIAS,
BAYS,**

**SANDER,
Bruges,
BELGIUM.**

Agent: A. DIMMOCK,
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SEND FOR SPECIAL OFFER.

Farquhar Violets.

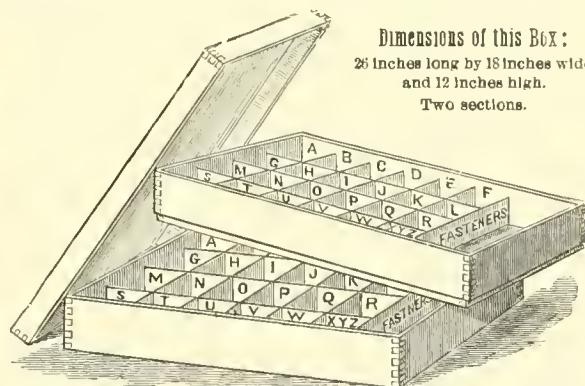
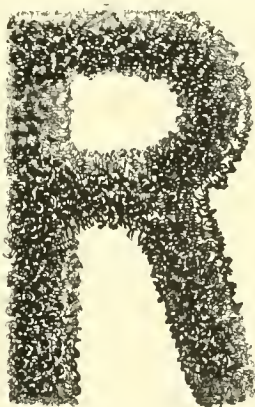
From 2½ in pots - - - - \$5 per 100
California in pots in bud - - - \$4 per 100
Campbell Runners rooted - - - \$1 per 100

C. E. WELD,
VIOLET SPECIALIST. ROSLINDALE, MASS.

GREEN AS GRASS.
Verbenas rooted cutting in eight separate colors.
Per 1000 \$7.50, per 100 80c.

For quality of stock see Rochester notes in AMERICAN FLORIST, issue of October 5th, 1895.

FRANK S. PAYNE,
Cash with Order **WHOLESALE FLORIST.**
Barnard Crossing, N. Y.



Dimensions of this Box:
26 inches long by 18 inches wide
and 12 inches high.
Two sections.

This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

BOSTON FLORIST LETTER CO.

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Sizes 1½-in. and 2-in. 2.00 per 100. Patent fastener with each letter.

OUR NEW SCRIPT LETTER, \$4.00 per 100.

N. F. MCCARTHY, 13 GREEN ST.,
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Office, 84 Hawley Street.

We have a new **FASTENER** which we consider a decided success. Any customers having old style fasteners which they wish to exchange, can do so without additional cost by writing us.

These Letters are handled by all the Wholesalers Boston.

Clematis paniculata, 1 ft. well rooted....	Per 100 \$7.00
smaller plants.....	3.50
Cinnamon Vine, No. 1, \$15.00 per 100.	
No. 2, 10.00 "	
Rose Japanese Wichuraiana, 2½-in. pots	2.50
Hyacinthus candidus, No. 1.....	1.00
Hemerocallis flava (Lemon Bell).....	4.00
Thunbergii, smaller, blooms later	6.00
Double Tiger Lily, No. 1.....	2.00
Peonias, 3000 roots, 100 best named sorts	
100 varieties, 1 of each, named.....	\$30.00
100 roots in 20 named varieties.....	15.00
100 roots named, my selection.....	50.00
20,000 Cladotus Lemolne's Hybrid.....	\$5.00 per 100
20 named sorts.....	4.00 "
Lemolne's Hybrid, mixed sorts.....	
Lists free.	
E. Y. TEAS, Irvington, Ind.	
Mention American Florist.	

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A. D. Perry & Co., 33 Warren St., Syracuse, New York.
A. Herrman, 415 E. 34th St., New York.
H. Bayersdorfer & Co., Philadelphia, Pa.
A. C. Kendal, 115 Ontario St., Cleveland, O.
J. A. Simmers, Toronto, Ont., Agent for Canada.
E. H. Hunt, 79 Lake St., Chicago, Ill.
Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.
H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.
T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.
Jas. Vick's Sons, Rochester, N. Y.
C. A. Kuehn, 1122 Pine St., St. Louis, Mo.
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Huntington Seed Co., Indianapolis, Ind.
Geo. A. Sutherland, 67 Bromfield St., Boston.
Welch Bros., No. 1A Beacon St., Boston.
N. F. McCarthy & Co., 84 Hawley Street, Boston.
The Henry Phillips Seed and Implement Co., Toledo, O.
Walter A. Potter & Co., Providence, R. I.
J. C. Vaughan, 26 Barclay St., New York.
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HARRISBURG, PA.

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News Notes.

FREEPORT, ILL.—W. S. Fisher has opened a floral store in the Y. M. C. A. building.

SCHENECTADY, N. Y.—J. E. Felthousen will build two new houses this season, 20x225, three-quarter span.

LAKEWOOD, N. J.—A new greenhouse 30x130 on the grounds of A. S. McBean was blown down during a heavy wind, involving a loss of \$1,500.

PHILLIPSBURG, N. J.—Wm. Baumgarten has rented the flower and vegetable business of Alexander Schultz; the latter has retired after thirty-five years of successful business life.

COBLESKILL, N. Y.—Chas. Limmer has taken down an old house 14x40 and erected a new one 28x50, the center of which will be used for sweet peas, to be followed by chrysanthemums; the side benches are used for general spring stock of bedding plants.

COLUMBUS, O.—Underwood Bros. are busy putting the finishing touches to the two large houses recently added to their plant; they also intend giving their other houses some overhauling, such as replacing the old benches, painting, etc. Mr. S. F. Stephens is remodeling his office in connection with his greenhouses.

COLUMBIA, TENN.—D. E. Dortch has purchased the property and stock of the Columbia Greenhouse Co. He has just completed one new house 18x60; will soon begin building two other houses, one 9x120, the other 15x120. The system of heating is flue and hot water combined. Trade is somewhat on the increase. The demand is greater for decorative plants.

FERGUS, ONT.—The annual meeting of the Fergus Horticultural Society was held on the 8th inst., at which the following officers were elected for the ensuing year: Jno. Beattie, president; G. A. Reid, vice-president; G. W. Murton, secretary and treasurer; directors, Robt. Brooks, D. S. Burk, R. H. Perry, T. J. Hamilton, A. Perry, Peter Bayne, Jas. Pattison, Jesse Anderson and J. S. Steele. The secretary gave a very satisfactory report for the past year, showing the society to be in a flourishing condition.

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—WE MAKE IT—
IMPORTERS OF
BULBS
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ALWAYS ON HAND
FINE STOCK
CUT FLOWERS
ELLIS & POLLYWORTH
MILWAUKEE
WIS.

100,000 CANES

fresh from the brakes, 6 to 8
feet long, \$4 00 per 1000,
f. o. b.

Address **NANZ & NEUNER**, Louisville, Ky.
Mention American Florist.

GAPE FLOWERS

By S. S. St. Louis.

"FRESH CROP." Stock Limited.
Just Arrived.

Special Prices for ORIGINAL CASES.

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IMPORTERS AND MANUFACTURERS,

25 North 4th St., PHILADELPHIA, PA.

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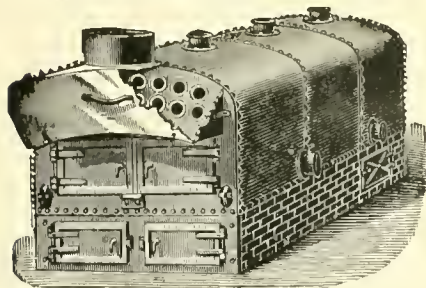
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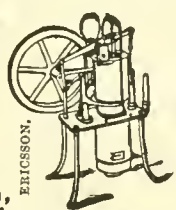
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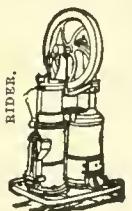
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2 1/2 "	1,000	" 23 "	39	2 30
3 "	1,000	" 34 "	35	2 80
3 1/2 "	1,000	" 45 "	50	4 00
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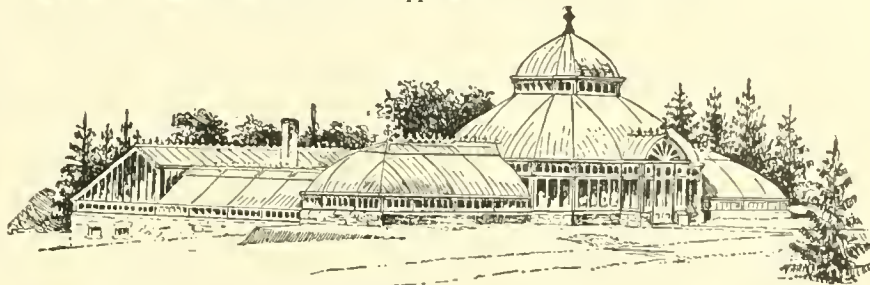
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News Notes.

BIDDEFORD, ME.—Josiah H. Boston, well known as a gardener, died January 20, aged 66 years.

READVILLE, MASS.—Walter Butler has discontinued his flower store and will do business at his greenhouses only in future.

PAWTUCKET, R. I.—Andre Fearn, proprietor of Mineral Spring Greenhouses has made an assignment to Jas. E. Bani-gan.

PROVIDENCE, R. I.—An enthusiastic meeting for the purpose of organizing a gardeners and florists' club was held here on Tuesday, January 21.

NYACK, N. Y.—The greenhouses of Howard Blauvelt on Fifth avenue and Franklin street were sold under foreclosure on January 11, to Andrew Wood.

MIDDLETOWN, OHIO.—The south wall of a large greenhouse belonging to Henry Behrens gave way on the morning of January 8, wrecking the house and ruining the contents.

LITTLE SILVER, N. J.—Mr. J. T. Lovett has purchased enough of the stock of The Lovett Co. to again give him a controlling interest, and the concern will hereafter be under his sole management.

WARREN, PA.—Mr. D. Offerle is about to commence building four houses, each 150x24. These will be equipped with the best modern appliances and adapted for roses and carnations. Both Mr. Offerle and Mr. W. M. Lott report a good and steady increase in their trade.

BRATTLEBORO, VT.—Carl S. Hopkins has started in the nursery and seed business here. His business address is Green Mountain Seed Gardens. Trade here has been very good in the cut flower line. Carnations seem to be the standard flower up to date, but daffodils sell well, also Harrisii lilies. There is not much done in the plant line here until about Easter.

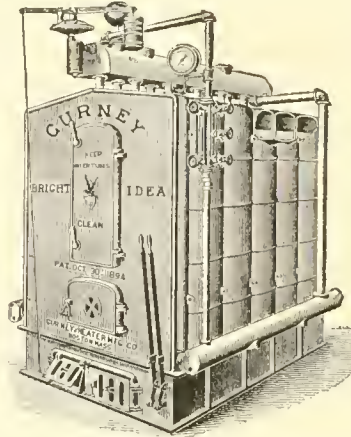
PEEKSKILL, N. Y.—Edson L. McCord is a new florist on Main street, with about two thousand square feet of glass. The business is entirely that of a local trade. The business of J. S. Baker has been sold to J. N. Tilden, no change in size of the plant. Trade is very dull, and the demand is very limited, only for an occasional bunch of mixed flowers and a few ornamental plants for house use.

POUGHKEEPSIE, N. Y.—Mr. John C. Haggerty, a member of the firm of R. V. Haggerty & Sons, and son of the late James Haggerty, who built the first greenhouse in this city in 1853, died last November, aged 30 years. Since the death of James Haggerty in 1881 the business has been carried on by his widow and sons under the firm name of R. V. Haggerty & Sons. The title will now be R. V. Haggerty & Son.

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Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Doppfel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Doppfel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

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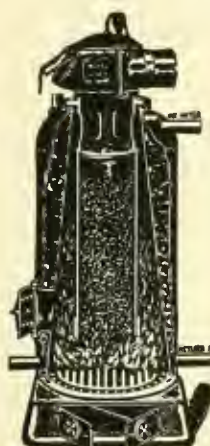
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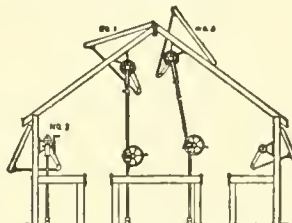
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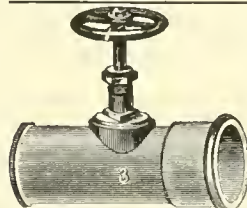


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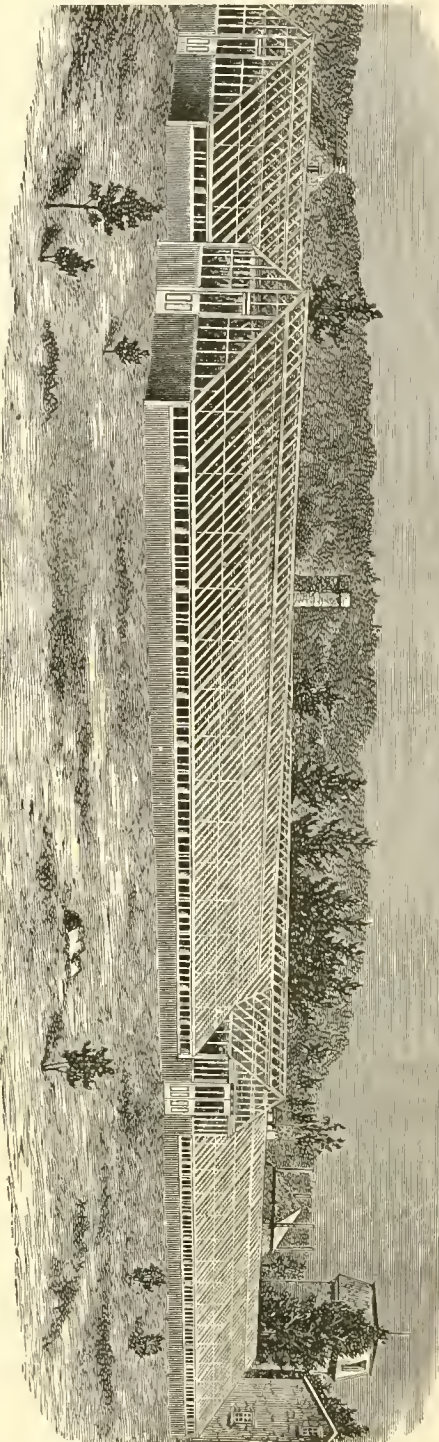
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HORTICULTURAL ARCHITECTURE AND BUILDING.

HEADQUARTERS
FOR
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CIGAS LEAVES
EQUAL
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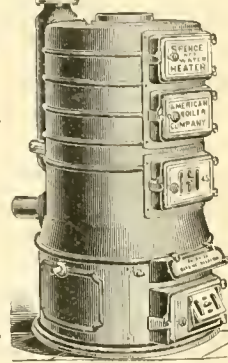
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Vol. XI.

CHICAGO AND NEW YORK, FEBRUARY 8, 1896.

No. 401

THE AMERICAN FLORIST

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PUBLISHED EVERY SATURDAY BY
THE AMERICAN FLORIST COMPANY..
322 Dearborn Street, Chicago.

Subscription, \$1.00 a year. To Europe, \$2.00.
Subscriptions accepted only from those
in the trade.

Address all communications to

AMERICAN FLORIST COMPANY,
P. O. Drawer 164, CHICAGO.

Eastern Office: 67 Bromfield St., Boston.

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Cleveland, O., vice-president; W. J. STEWART, Bos-
ton, secretary; H. B. BEATTY, Oil City, Pa., treasurer.
The twelfth annual meeting will be held at Cleve-
land, O., August, 1896.

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RICHMOND, IND.—At the annual meet-
ing of the Society of Indiana Florists held
here February 6 officers for the ensuing
year were elected as follows: J. S. Stuart,
Anderson, president; Henry Rieman, In-
dianapolis, vice-president; Robert Mc-
Keand, Indianapolis, secretary; F. Hunt-
ington, Indianapolis, treasurer. Arrange-
ments were made for a chrysanthemum
show at Indianapolis next November.

WE HAVE RECEIVED from the secretary
of the Toronto Gardeners' and Florists'
Association a printed statement showing
receipts and disbursements during the
year, including matters connected with
their exhibition and much information of
interest concerning present condition of
the club. The statement is remarkably
full and complete, and we believe that
secretaries of other clubs would find it of
much interest. We have no doubt that
the secretary of the Toronto club would
furnish brother secretaries with copies.
The address is E. H. Carter, secretary,
280 Gerrard street, Toronto, Ont.

Ferns.

For the past two or three years public
taste has turned towards the larger
growing ferns which possess a graceful
arching or drooping habit, and the sales
in such plants are increasing with every
season. These ferns are well adapted for
pillar stands or for large jardinières in the
parlor, and are preferred by many to a
palm, dracæna or any other foliage plant
on account of their foliage being justly
considered finer, more elegant and airy.
Their lasting quality compared with
many of the palms may not be exactly in
their favor, but where watering is not
neglected and the plants are allowed a
fair amount of the necessary light, no
trouble should be experienced in keeping
the plants in health for a whole season.
The most popular species at present
seems to be the *nephrolepis* in variety,
and justly so, for they are among the
easiest to handle, they will endure the
drying atmosphere of a room admirably,
and when grown to a fair size are really
a most desirable plant for the purpose. A
few plants of them planted out in a
shallow bench will in a short time pro-
duce young stock in sufficient quantities
for all ordinary purposes. Young crowns
are formed on the numerous very slender
and wiry runners springing from the
stronger and older crowns, and when
these young crowns have made three or
four fronds they may safely be removed
from the parent plant and potted up.
Small sized pots should be used, for if
plenty of pot room is allowed to such
small plants there is more or less danger of
over-watering, them until rooted through,
and all the *nephrolepis* dislike water
standing around the roots, although
when once established they will absorb a
great quantity of moisture, and should
at no time become dry, else the leaflets
will turn yellow and drop off leaving the
frond stems entirely bare. For this rea-
son good drainage is the most essential
point in potting these plants, the potting
material is only of secondary importance;
they do equally well in a heavy or in a
light soil, and seem to draw their nour-
ishment almost entirely from the water.
Shallow pots or pans seem to suit them
best, the soil in these is less liable to turn
sour, and the roots of the *nephrolepis*
have a natural tendency to run near the
surface and to spread out. Young plants
of this fern will quickly grow into large
specimens fit to go into 7 or 8-inch or
larger pots, but after attaining that size
any further repotting is not necessary.
All they want then is plenty of water;
fine specimens in such sized pots have
done well with us for a number of years
without any repotting or feeding and
with only ordinary care.

The variety most extensively grown at
present and perhaps the most popular
kind is undoubtedly the old and well
known *N. exaltata*; it is of rapid growth,

forming good specimens in less than two
years. The long narrow fronds will grow
to a length of three feet, arching or bend-
ing over in a graceful style, and it is a most
desirable variety. *N. davallioides furcans*,
which has been described already in these
columns is surely one of the very best, but
is not to be confounded with *N. daval-
lioides*, the latter is a very distinct plant
of robust growth, easily distinguished by
the peculiar mode of setting seed in one
compact mass at the tips of the leaflets,
which latter are much narrower and
longer in the fertile fronds than in the
barren ones, and also have their lobes cut
in much deeper. In *N. d. furcans* we have
an entirely different plant, I can see no
resemblance to the other and have
often wondered how it came to its name,
here the seed-bearing fronds are exactly of
the same size and shape as the barren
foliage and the sori or seed spores are
distributed along the leaflets in round
separate dots. A very free growing and
most ornamental variety, with substan-
tial leathery foliage and long elegantly
arching fronds.

N. rupestris tripinnatifida is grown to
some extent by a few growers only, for
some difficulty is occasionally encountered
in raising fine specimens of this deserving
fern, the center of the plant after a while
decaying or giving out in some way.
Notwithstanding this perhaps serious
drawback it is a grand plant, possessed
of handsome free and upright growth.
The fronds are very broad, of a dark
glossy green, and present a massive, still
light and feathery appearance produced
by the three times deeply divided or
fringed pinnae or leaflets and their deeply
cleft margins, which are overlapping each
other. The growth is semi-erect, their
height two and a half to three and a half
feet. The stalks and midribs are of a
shiny dark brown, the lower part covered
with a red pubescence. Little difficulty in
growing this splendid fern will be experi-
enced when young plants with only one
crown are employed for growing on
instead of attempting to doctor up older
or damaged individuals. This variety
more than any other should have perfect
drainage, for it requires lots of water also
a higher temperature will be beneficial.

N. cordifolia, *N. tuberosa*, and *N. cor-
data* seem to be one and the same thing
and are found in many places mixed up
with *N. exaltata*, which latter it some-
what resembles in many respects, though
the true plant grows more erect and the
leaflets are set closer along the stem, the
fronds also are shorter and stiffer than in
that variety. *N. pectinata*, a smaller and
much neater variety, deserves to be grown
more generally. The compact growth
and freedom with which the long and
arching narrow fronds are produced
should recommend it to all. The fronds
resemble those of *N. cordifolia*, but are of
smaller dimensions and narrower, of a

lighter shade, growing only to a height of 1½ to 2 feet. *N. acuta* much resembles the well known *N. exaltata*, but is rather a stronger grower with broader fronds and larger leaflets. This also is seen in many places under the latter name, and is surely one of the best for decorative purposes, and a very fast grower. *N. Duffii*, though an elegant neat little species is not considered of much value for the purpose, being entirely too small in its dimensions. Aside from the *nephrolepis* there is a number of other ferns which when grown into fair sized specimen will sell readily. Among the best of these we may mention the old and reliable

Pteris argyrea, a very robust and free grower attaining a height of 2½ to 3½ feet. The broad silvery white band in the center of the leaf and along the midrib of every leaflet are prominent features in this variety. No great skill is required to grow good specimens of it inside of a year; starting from small seedlings; any ordinary good soil will suit it, and after it attains the required size it may be kept in a cooler house to harden off. It will stand the lower temperature exceedingly well. *P. nemoralis* is another robust species, resembling the above in some respects, without the silvery variegation, the fronds are not as deeply cleft and are considerably less in width, but it is a grand fern for the purpose, and a very free grower, only requiring a little more heat than the first mentioned. *P. tremula* is well known to everybody; being of quick growth we may have large specimens inside of a year with only ordinary care. Its variety *P. t. foliosa* is an improvement on the ordinary species, having broader and larger fronds. The leaflets also have undulated or wavy edges. A cool house is best for them.

In *aspleniums* several kinds may be mentioned, such as *A. longissimum*, which is a most splendid species with long narrow arching *nephrolepis*-like fronds. The leaflets are set close to the stalk, which in well grown plants will attain a length of 2 to 3 feet. The color is a very dark green, and their texture is leathery and stiff. A free and strong grower requiring a rather warm place to do its best, but it is a very lasting fern, owing to the firmness of the leaflets and its ability to hold on to the latter when the plant gets dry. *A. bulbiferum*, perhaps the best known species of the large family of *aspleniums*, is a most vigorous grower when once fairly established, and should be a favorite among the growers of large sized ferns. The habit and growth is most elegant in large plants, the deep glossy green of the long arching fronds, which are from 2 to 3 feet long, is retained on the oldest leaves for a long time even if the plant be neglected in watering at times and it holds its own in a dwelling house air better than any other fern I know of.

A. laxum is a smaller and more compact growing variety but in general aspect much resembles the above; the height of the plant when fully developed is only 12 to 16 inches, still it is very desirable. *A. formosum*, another of the medium sized ferns grows to about 1½ feet under ordinary circumstances. It is of a light green and has deeply divided and lacerated fronds, which are produced in uninterrupted succession all the year around. Although this plant has the appearance of possessing a most delicate nature there is no difficulty in keeping it in a healthy state, for its constitution is considerably stronger than it looks to be. *A. cicutarium* belongs to the same group,

with finely divided fronds of medium size requiring more warmth than the average *aspleniums*. When fully grown this plant presents an exceedingly elegant and delicate appearance, though it is by no means a difficult fern to manage.

Lastrea lepida, probably the most beautiful and attractive of all *lastreas*, is a rather rare fern, and though it seeds freely we as yet have never had much luck in raising young seedlings. The elegant fronds spring from a center crown arching outward, forming thus a very symmetrical well shaped plant about 2 feet in height. The fronds are composed of numerous long narrow leaflets, which are 5 to 6 inches long at the lower or widest part of the frond, diminishing in size towards the upper part and terminating in a very sharp point, the edges of the pinnae are deeply serrated. *Lastrea aristata* also may be mentioned in connection with useful decorative ferns, the thick leathery fronds are of great substance and will endure rough treatment to a great extent.

Cyrtomium falcatum and *C. caryotideum* are both well known hardy ferns which can safely be recommended, and which may be grown to a fair size in a short space of time. Both will stand the drier air in a dwelling admirably well.

Scolopendrium vulgare, especially the undulated and crested varieties will be found a first-class addition to the above mentioned species and varieties. Although not of tall growth it produces its fronds in such quantities and has such an attractive dark shiny color; the leaves so thick and leathery in structure, which will endure the roughest treatment without injury. In many cases where taller plants are objected to this superb fern may find a place, for it forms an elegant compact specimen when grown into a size requiring a 6 or 7-inch pot.

To grow specimen ferns of any description successfully will require plenty of bench room, for nobody can possibly grow these plants well if they are in any way crowded together, and therefore a good price must be obtained for such stock. There is little danger that the market would ever be overstocked with the larger sizes, although the smaller ferns may at times be over-plenty in some sections of this country. J. B. KELLER.

Rochester, N. Y.

Fern Notes.

Taking the immense number of species and varieties it is surprising that so few should be grown in quantities, especially as they are now used in almost all floral decorations. I may here enumerate the principal sorts grown for our London market. They are the ordinary maidenhair (*Adiantum cuneatum*), *Pteris cretica* and its varieties, the lightly crested variety and the broad fronded variety known both as major and *Ouvrardii* being the most popular. Another fine form is *nobilis*, heavily crested but of a stiffer habit of growth. *Mayi*, the crested variety of *albo-lineata*, is also a favorite. Of *Pteris serrulata* there are numerous variations; the best dwarf variety is *serrulata cristata compacta*, and that known as the Chiswick variety of *serrulata*. Major *cristata* is one of the best, but as this rarely comes true from spores it has not been so much in demand since the better varieties of *cretica* have come to the front. *Pteris tremula*: Of this there has been several varieties brought forward, but the normal form still holds its own. The fine crested variety *Smithiana* was thought to be a grand thing when it was first brought forward, but

it has been found to be too brittle, and the crested tips keep growing and are consequently very tender.

Phlebodium aureum is grown very extensively, and curiously enough no distinct varieties have yet occurred. *Cyrtomium falcatum*, of which *Fensomii* is the best variety, is one of the best winter ferns. Of *aspleniums* the sorts are confined to the *bulbiferum* type, *biforme* being the one most extensively grown. Another popular variety is *A. laxum pumilum*, this is a beautiful fern, but it does not make stock so freely as *biforme*, though plants command a better price in market. Those above referred to are all grown in very large quantities. There are of course some others which find some favor. Within the last year or two the *nephrolepis* have been taken up by some growers, *exaltata* being found very useful. Some of the *davallias* also claim some attention, but I will refer to these later on, as I propose to give a series of notes on useful ferns and their culture.

A. H.

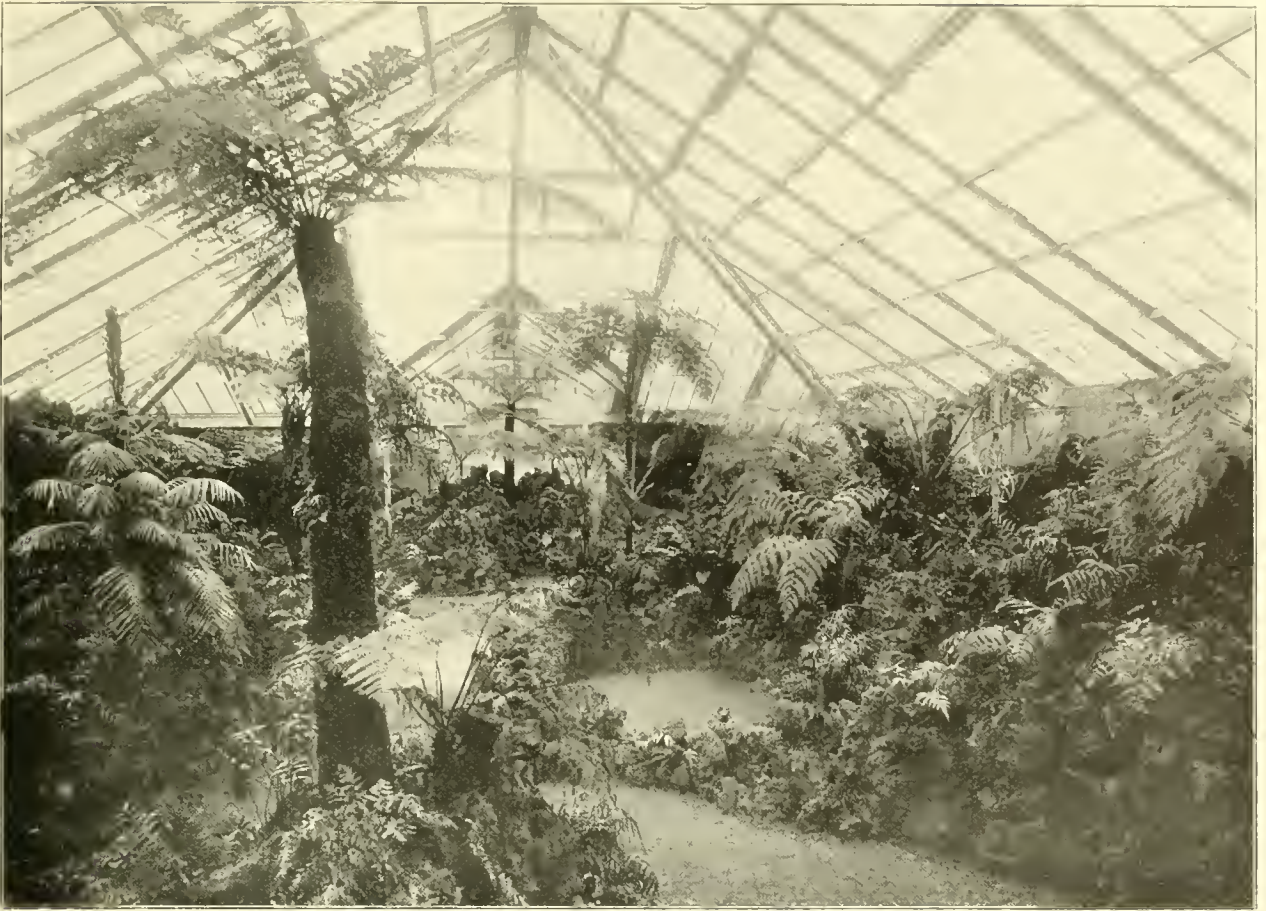
Adiantums.

Cuneatum still holds first place among maidenhairs, though there are many other useful sorts, foremost among which is *A. elegans*. This has larger fronds and grows taller; for many purposes it is preferable, as it stands up so well. It also has the advantage of being hardier. I find this will grow freely in winter, while *cuneatum* remains quite dormant. Of larger fronded sorts *A. scutum* is one of the best. When this is well done it stands well either as a pot plant or when cut. *A. Collisi* is a very fine variety with large much divided fronds and rather small pinnales, this makes a grand plant, but has not yet come much into commerce. *Adiantum Farleyense* is now grown to some extent, and when treated properly is found to stand fairly well. *A. Williamsi*, which thrives well under cool treatment, has been grown to some extent, but chiefly for supplying cut fronds. I may here mention that though fairly well matured fronds last well, when they get a little too old the pinnales drop off. I know of no other *adiantum* which has this peculiar character.

Of the small compact growing sorts *A. Mundulum* and *A. Pacottii* are the most useful, both making compact plants for edging, etc. *Mundulum* is also useful for cutting, the small fronds being useful for buttonhole bouquets, etc. Among others worthy of attention are: *Lathonii*, *Reginae*, *fragrantissima*, *fulvum* and *æmulum*. *A. assimile* is the best for covering the porous pots referred to in a recent number of the AMERICAN FLORIST. *Moorei* is another useful one for the purpose, but loses its fronds in winter.

Of newer sorts which may prove valuable *A. tenellum* and *elegantissimum*, both of which are varieties of *æmulum*, are likely to come to the front.

All the *adiantums* referred to above, with the exception of *Farleyense*, may be raised from spores. *Williamsi* is not so free as most, but as it has spreading rhizomes it can be propagated by divisions. In collecting spores of the *adiantums* the fronds which have only a few of the spore cases open should be taken, and to insure getting each sort as true as possible plants which have been grown isolated from other sorts should be selected. Although fern spores are supposed to retain their vitality for an almost indefinite period, I prefer new spores, especially for *adiantums*. In sowing fern spores the chief thing is to get some clean fresh loam to sow on; pots



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filled with pure clean loam and surfaced with a little charcoal and some burnt earth or broken pots powdered up fine will be found the best for raising fern spores. The pots may be covered with glass, or if in a shady moist place this is not necessary.

As soon as the pots are well covered with the green prothalli the pricking out should be commenced. The small seedlings or prothalli as they are called may be taken out in little patches with the point of a knife. We do them off into small wooden boxes about two inches deep; these are filled with suitable compost and surfaced over with a little which has had more sand added and passed through a fine sieve. The patches referred to above may require dividing again later on. During the early stages of growth all the adiantums require great care when being pricked off or potted, for if the fronds get a little withered it will cause damping.

Adiantums succeed best if potted on before they get pot-bound. In growing them on it is essential they should have as much light as possible. During very bright sunshine a little shading is necessary, but shading is often overdone, as is watering; plants should never be allowed to become too dry, but over-watering is more often the cause of failure than otherwise.

For cut fronds I find plants grown on until they are large enough for 6-inch pots are the best, and it is after the pots are well filled with roots that they make fronds of better substance. In our London market it is only fronds of a pale green which sell well, and it is only from

those grown well exposed to the light that these can be obtained.

A. Farleyense has to be propagated by divisions. I find that young plants which can be broken up in three or four and some good fresh roots retained succeed much better than when old pot-bound ones are divided. The spring time is the best. If done carefully and the fronds are not allowed to get withered they will start away freely. They must be kept quite close and shaded for a few days. Farleyense succeeds best in good fibrous loam and leaf mould, plenty of sand may be added and good drainage given. It is only since growers have grown this fine fern in such positions that they get the fullest amount of light that it has been found of any service for decorations. Under the old system of heavy shading and moisture the fronds were found to shrivel up almost as soon as they were brought into daylight. If started and grown on throughout in full daylight it is surprising how much sun the most delicate adiantums will stand without being in any way damaged.

A. H.

New Fernery at Lincoln Park, Chicago.

The accompanying views give but a slight idea of the beauty of this excellent addition to the park conservatories. The rock used is of a very porous character, partly volcanic and partly of vegetable matter covered with a deposit of lime, and will make congenial ground for self-sown seedlings. The rock work is carried up to the gutter plate, the walls being entirely hidden, as are also the heating pipes which occupy the space between

the wall and the back of the rockwork. Holes are run through the rockwork at frequent intervals at the bottom so the cooled air may pass to the heating pipes again after descending from the roof.

At one side there is a small waterfall, much broken in its lower course, along which moisture loving plants are being naturalized. The water passes then under a rustic stone bridge to the pool seen in the large picture.

The ferns are of course planted in pockets of prepared soil. The idea was to follow nature as closely as possible and she is expected to complete the work of covering what may now be bare.

Head gardener Strombach is to be congratulated on the manner in which the plan has been carried out.

Tempering Water.

We send a device for warming water for greenhouse purposes, which has given us good satisfaction for several years. Though not original with us we send it in for the benefit of florists who may be deterred from putting in a device of this kind thinking it more expensive than it really is. Procure a second hand 30 gallon kitchen boiler or tank from a plumber which will cost \$3 to \$5. If the plumber does an extensive business he will usually have several of these on hand. Have him run a piece of inch pipe forward and back through it. This will cost perhaps \$3 more, and it is now ready to connect with your city water pipes. Run a steam pipe with a globe valve from boiler into it; run another pipe with a check valve and air cock back from it to the boiler, and it

is ready for use when warm water is wanted. For economy we placed our tank in a nearly horizontal position in the corner of one of our greenhouses, under the bench, where we need a little extra heat. With this device you warm only what water you use, with 5 pounds pressure one gets water 130° to 140°, if not run too rapidly. We think a good syringing on bright days once in a while with fairly hot water one of the best methods of keeping carnation rust in subjection. Rose houses also can be more thoroughly wetted, especially the underside of the leaves, with hot than with cold water. The many beneficial results of using warm water instead of cold are well known to the trade.

MCCREA & COLE.

Battle Creek, Mich.



Carnation Notes.

With much interest I have read the report of the carnation meeting held by the Chicago Florist Club, and I regret very much to have been detained from attending that meeting. The discussions are indeed very interesting and give much food for reflection. Such discussions show how far we are from perfection in our work, how deficient our knowledge appears, when opinions are so different, experiments clashing in the results. Theories arrived at by experience and practical work are met from other quarters with the reverse. But such discussions, an exchange of ideas, a comparison of experiments, where all factors advantageous and detrimental are noted pro and con, will some day enable us to sum up results comprehensible and beneficial to all. I cannot omit here to point to the forthcoming carnation convention, where the opportunity is offered us to take part in and listen to the discussions and deliberations concerning the welfare and promotion of our trade.

The resume of the discussion on the growing of high grade flowers sums up as follows: Proper soil, suitable environs and understanding care will grow healthy plants and produce high grade flowers. Or in other words, high grade flowers are the result of an understandingly careful high cultivation. This requires more work, more care, more expense, but will amply repay in better returns.

Much stress is laid on the soil, and rightly so, for the soil is the first thing to be considered. I concur fully with the assertion that a clay loam is the best soil for carnations, as for many other plants (I am sorry that I have been unknowingly the cause of Mr. Hill's making his soil too light for nicety's sake), but when too stiff and heavy I would object. I like to ask the lucky possessors of such soil if they use it untilled, unprepared, or if they give it a good turning and use freely stable manure. This will not only enrich but in such soil will act mechanically, and is in fact a necessity. A heavy clay loam is naturally the richest soil, richest in mineral nourishment, so essential to build up a plant, and in the production of seed, consequently blooms. When we make such soil lighter, more friable, open to the air, we hasten the solution of these mineral ingredients, make them palatable for the quick consumption of the plants, and

enable their soft roots to penetrate the soil in quest of these riches. Our hard wooded trees grow only well in clay soil, our best wheat, with a stiff straw to carry the heavy heads, is grown on the uplands where clay dominates. Properly prepared this soil is the best for most of our soft wooded and herbaceous plants. The growth of the carnation is not as quick, the plants will not bloom as early as in a lighter soil, (so this infers that a lighter soil promotes root action) but is more substantial, more lasting, and I would recommend such soil wherever the climate will allow a growing of young plants to maturity under glass. But plant a carnation in the stiff heavy natural clay loam and it will feel like a man with feet bound told to walk.

With this view I will not say that light and sandy soils cannot be made equally good. Here we have to supply the mineral parts, so deficient in these soils, to give the plant more stability, the stems and flowers more substance and strength. While a heavy clay loam may be sufficiently enriched with good stable manure, light sandy soils are more difficult to handle, for they are naturally poorer, and it is not so easy to ascertain of what parts the soil is most deficient. Here is where we have to try, to experiment what kind of manures to apply. This accounts for more failures in growing high grade flowers in light soils. I see in another paper a report of this discussion wherein is referred to Dorner's light soil idea. Now, I would not like to be misunderstood. I never would give a light, as the poorer soil, the preference to a heavy rich one, but I say the heavy soil, especially the stiff clay loam, has to be worked mechanically, be made light with sand, stable manure, something to break its tenacity, to make it available for our soft plants to thrive in to promote root action. We must not confound our herbaceous carnation with the hard wooded rose.

We have on our place sandy loam and clay loam. The clay loam we intend to use we plow in the fall, after giving it a coat of strawy manure; in spring we repeat this, and in summer give it one more plain plowing. Beginning of August we throw this ground up in a ridge, with layers of well-rotted manure, bone meal and horn shavings between. When taken to the house we add some of the sandy loam; so the whole is in proportion as follows: 2 parts clay loam, 1 part sandy loam, 1 part manure. This is my light soil idea and I have fared well with it so far. Further, I have found that all of my soil is deficient in lime, so in December I gave a top dressing of hard wood ashes, and results show up very satisfactory. Next fall I will add some ashes and lime to the compost.

It will not take necessarily new varieties to grow high grade blooms, any variety that will respond to the push of a higher cultivation, has vigor, and if able to digest the food given will do, if we only know what to give and the limit thereof. This is demonstrated in this very paper in the report from Buffalo, where in one establishment 4-inch Daybreaks are rather the rule than an exception. These are certainly high grade blooms.

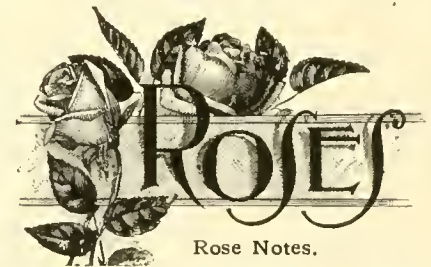
Does it pay to grow high grade flowers? I say "yes" with Mr. Rudd, and he hits the nail on the head with his remarks. The large quantity of inferior poor flowers is the greatest impediment in the evolution of carnation culture. These large quantities in the market sold at very little, and many thrown away, cause a depression in the prices of the high grade

flowers, and discourage the growers of such, for to show it does pay we will figure a little. My high grade flowers bring \$3 per 100 and over in the same market the common grade will sell at \$1, and many times less. I will allow the grower of the common grade to cut two flowers to my one, owing to not disbud-ding. Otherwise he would not grow one more flower than I can; the advantage is rather on my side in the stronger and thrifter plants and more continuous blooming, and probably at the end of the season I have from a same size space cut as many flowers as he has. But to return to the first estimation. High grade \$3, common \$1. His production in number is double mine, 1,000 blooms will bring me \$30, his 2,000 \$20. Now make an estimate of the whole crop, say 100,000 and 200,000 blooms, the difference in the return is amazing, and well I can afford to spend a little more in their production. And the difference will be still more when prices get lower or in a glut. I am safe to say when my high grade blooms will bring only \$1 per 100 the common grade grower will probably receive 50 cents and only 25 cents for 100, the other 100 he can consign to the rubbish pile. When in good demand I receive about one-third more, but when depressed and in a glut three-fourths more. Will it pay?

Do not believe that you cannot cultivate your customers up to buying your high grade blooms at a paying price. In our home market we cannot sell any common flowers, people do not want them, they may buy a few less but they want the best. I had my experience in this matter.

I cannot omit here to call attention again to the coming convention and exhibition of the Carnation Society in New York, where the flower market has dimensions second to none on the globe. We certainly can expect to see something extra. How pleasant, how interesting and fruitful are such discussions as of late held in Cincinnati and Chicago. How more so will be a large gathering like the one to be expected in New York, when moved by the right spirit. Let every one who can make it a point to be there, take part in the discussions and deliberations, in the welfare and promotion of our trade.

FRED DORNER.



Rose Notes.

From Carnegie, Pa., Lawrence, Kans., and Holyoke, Mass., come inquiries about grafting, to answer which will necessitate taking up the subject and treating it in a somewhat exhaustive manner, so will make it the subject of my notes for this issue. As a stock on which to work tea or hybrid tea roses, in my opinion the Manetti is by far the best; multiflora suckers badly from the root, and also changes the color of the flower in some cases, while the Canina does not make enough small fibres to suit me. Manetti stocks are seldom offered for sale in this country, probably because there has been little demand for them; there is no reason, however, why they cannot be rooted and grown here as successfully as in Europe. They can be procured from any of the large rose grow-



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ers in England and probably in France at reasonable prices.

For grafting purposes the stock should be strictly selected, choosing only the medium sized ones or such as correspond in thickness with the wood to be used in grafting. On arrival they should be potted into 2¼-inch pots, first trimming off any broken or damaged roots, and shortening back those too large to get inside the pot. After potting I prefer to set them in a cool house where a night temperature of 40° can be maintained; this will induce root action, and at the same time discourage any tendency to push out shoots. After about four weeks of this temperature they will show quantities of small white roots, and are then ready for use. Some growers prefer instead of potting up the stocks to graft them at once and layer them in sand until the graft is taken; I have tried this and other methods, but the one I recommend has been by far the most satisfactory.

The next thing in order now will be preparing a place to receive the plants after grafting. The south side bench in a good light house is as good a place as we can have. The first requisite will be heating pipes sufficient to maintain a strong bottom heat; if steam four 1¼ inch pipes will be needed, and must be boxed in tight with matched boards. The bench must be made to accommodate sashes like a

frame, the sashes to be hinged on the back, with enough pitch to the front to carry off all condensation. The sides of bed must be perfectly tight, the joints between the sashes also be perfect, for the least admission of air from the outside will wilt the young grafts and render their taking very improbable. It is important that the plants be as near the glass as possible, and that the sashes be such as to throw a minimum amount of shade. The grafts will not bear any sun, but all light possible is very essential; as a help to secure these conditions I recommend placing the frame on the south bench as suggested above, with the slope of sashes to the north. The bench being completed I would cover with about two inches of sand or fine coal ashes, having first treated the bottom and sides to a thorough lime wash.

Coming to the operation itself, begin by choosing the very best wood obtainable; blind shoots are generally too thin to match the stock; that left after cutting off the flowers is the strongest and in the best possible condition for use. In taking off the wood the foliage must not be damaged or allowed to wilt. A suitable place should be chosen for the work, free from all draughts and convenient to the grafting bed. Necessary appliances will be a flat containing the stocks, an empty one ready for use, both placed convenient

to the operator, a seat rather low, a ball of common cotton string and two good sharp knives. I first make ready a number of grafts by shortening the leaf same as for cuttings, then making a long clean sloping cut at the lower end from half to three-fourths of an inch in length, then take one of the stocks in the left hand, placing the stem between the first and second fingers and with the other knife make a cut of the same size and shape as previously made on the graft; choose one that fits the stock as nearly as possible, place the two cuts together, wind with a piece of string all the length of the joint, not too tight or too often, fasten the end of string, and the operation is completed. It is very important that the grafting be done as near the base of stock as possible so that in planting out the union comes below the surface. The grafted plants must now be transferred to the bed or frame, or whatever we may call it, and after giving the sand a thorough soaking should be very carefully set; there must be no clinging of the leaves together or a bad joint will be the result. It is a good plan to leave a little space, say two inches, all around the inside of the frame. I have always found grafting exceedingly interesting work, and it is generally no task to give them the necessary attention. From now on until they are ready to come out of the frame little labor is required, but they must be watched every hour of the day, and night too; the temperature inside the frame should be kept as near 85° as possible; every morning and evening each sash should be raised and the contents critically examined. If any are dry at the root they must be watered without getting any into the cut; if the foliage is dry it should be sprinkled very lightly; the finest spray imaginable is the right thing. Sprinkle the wood work of frame, watch for any sign of fungus and remove same immediately it is discovered. If enough moisture can be maintained to keep the foliage crisp and fresh without any sprinkling of the same so much the better. As a rule no ventilation will be necessary during the first five or six days; at the end of that time the cuts will begin to callous and unite, when a little air may be introduced. Begin with about 20 minutes, twice a day, and gradually increase until at the end of two weeks the sashes may be left propped up all the time. One week more to harden off and get accustomed to the sun and they may be removed from the frame. By this time they will have made considerable growth, and should be repotted into 3-inch as soon as convenient, aiming always to pot as deep as possible. If the union is covered with soil the string usually rots before it can do any harm, otherwise it must be removed to give room for the swelling of the stem. They may now be treated exactly the same as plants on their own roots, except that any suckers which may come up from the Manetti must be cut off close to the stem as soon as they appear. If treated properly they will grow very rapidly and will require to be planted out or moved into larger pots much quicker than will plants grown from cuttings.

February and March are the best months for grafting; later in the season the sun is too fierce to have the best success. If the wood and stocks are of the best quality and every condition favorable the percentage of loss is very small, in some instances not amounting to 1%; but to anyone who is not prepared to give them all the necessary watchfulness and care I would say "Don't try to experiment, for you may be disappointed." In any case I

would suggest to those interested in the subject that they go slow the first year; try a few of each kind, and if you are thoroughly satisfied you can test it further with confidence, while if with you it proves a failure your loss is light, and disappointment trifling. ROBT. SIMPSON.

Eel-worms and Anthracnose.

D. & B., florists living in Illinois, have sent for examination three rose plants dug up from the benches; same are in a sickly condition and they wish to know what is the trouble. The roots of one of the plants received were all matted together, the result of eel-worm, while the other two were bad cases of anthracnose.

If the three specimens received were fair samples of what are growing in the benches now it will hardly pay D. & B. to spend time and labor trying to restore them to health; it is probable, however, they sent some of the worst specimens to be found. If they wish to experiment I would refer them to an article on eel worms in the issue of January 4, also to Mr. May's article on page 649, issue of January 25. I would say, however, that there is little or no hope of destroying the pest once the plants are attacked by it; inside the root it is out of reach of any application, except such as are powerful enough to destroy the plant itself. I have more faith in very heavy waterings than anything else I have tried.

The main thing for D. & B. to do is take care and procure soil for next season that is free from the pest, and I will repeat here what I have said before, that I have very seldom found any in soil that is low enough to be covered with water at certain seasons of the year, while very often in close proximity, where the land is slightly elevated, and on that account is always comparatively dry and perhaps of a lighter texture they are so numerous as to make it utterly impossible to grow roses in it at all. It is the greatest folly to take cuttings from plants so affected, and it is necessary to keep young stock entirely apart or there may be a continuation of the trouble next winter.

Anthracnose has been described and a remedy given in the AMERICAN FLORIST twice recently, that recommended in the issue of February 1 for the plants of "Aug. S." will answer in this case. The syringing must be kept up continuously until the trouble entirely disappears, and at the first sign of its return the syringe must be brought into use again.

ROBT. SIMPSON.

Eel-worms—Manetti Stocks.

Do eel-worms infest the roots of Manetti stocks? In other words are roses grafted on the Manetti exempt from the pest?

F. E. P.

I do not remember having ever seen Manetti roots affected with eel-worms, but I do not see any reason why they should escape the pest if it is present in the soil any more than roses on their own roots. I have grown carnations, however, for the past three years in soil that contains quantities of them, but the plants are not attacked, and it is just possible, though not probable, that the Manetti may enjoy the same immunity. F. E. P. will be safer if he plants in soil positively free, however.

ROBT. SIMPSON.

Miscellaneous Seasonable Hints.

It is so long a time since I attempted to give any hints that I shall not attempt to

cover lost ground, but will endeavor to remind my friends of some operations that are attracting my attention just now. Some seeds that should be sown now are verbenas; get the best possible strain you hear of. They will by selling time be fine thrifty plants and can be depended on to give satisfaction wherever planted, and that is more than you can say of the cultivated varieties. Sow thinly, for it is well to let the seedlings get a good size and then pot them in a 2-inch pot; remember there is no place like a mild hotbed to make verbenas flourish.

If you have not sown *Centaurea gymnocarpa* do so at once. It is no longer considered a high class bedding plant, but for those who do a general business it is very useful for vases, etc. *Petunia* should be sown about now; don't buy any single strain, buy only the best double. You will always get enough single to more than satisfy you. *Petunia* is a very small seed, and if you attempt to cover the seed you will likely over-do it. Make the surface of the box or pan perfectly even and smooth, and then sprinkle the seed on it; press in the seed with a clean piece of board and then water. Cover the seed with a damp cloth, which you can moisten occasionally till the seeds germinate, but as soon as that takes place remove the cloth. *Petunia* seedlings, if kept too warm and shady, will quickly run up spindling, and as soon as they are showing leaf should be removed to the lightest place in the house where the temperature is about 50° at night.

If you are short of cannas you can increase your stock ad libitum by sowing seed at once. There has been many ways discussed of getting canna seed to start, so I won't enlarge on that, but sow them in a flat of pure sand and cover one-half an inch and place the flat on your hot water or steam pipes. No amount of heat, if accompanied with moisture, will hurt them. Cannas come largely true from seed; accidental crossing is rare. If you sowed or raised one hundred plants from seed of Mme. Crozy you would get about 95 Mme. Crozy and the small remainder (not balance as we erroneously say) would probably be yellow. So if you obtain seed from a good source you will have all acceptable varieties. If you want large cannas start your dormant roots about the middle of this month. Most florists are so crowded for room that they don't give cannas a show till middle of March, and then have to be expeditious about it. We divide the old roots into one good eye and put them in boxes of sand and place on the pipes. They soon make a start at both top and bottom, and then you can pot them into the 4 or 5-inch pots in which they will be sold.

Two very useful plants which are easily raised are *Dracaena indivisa* and *Grevillea robusta*. Get some seed of them and sow now. They will not make plants for this season's use, but will come very useful in the future.

Now about plants. Although it's a little dull just now you have to think about the future, and plants are selling well. Look out for those little cyclamens you sowed in December or later; the great secret in growing good cyclamens is never to let them get a check. To stunt a cyclamen means failure. When they have made one good leaf they should be transplanted into 2-inch pots and put in a light cool house, and carefully watered, viz., when they are dry they want water and when they are only half dry they don't want water. A celebrated carnation man made use of

this expression in my houses a few days ago, "We water our carnations different from most people. We let them get dry and then we give them a good soaking." I cast a glance of irony at him, we trust unobserved, but what rot; who is there successful in our business but what waters his plants exactly on these lines.

To get your main crop of lilies in just right will require a great deal of labor combined with a greater amount of judgment. Easter is this year on the 5th of April, rather early. If on Valentine's Day, the 14th, you can see the buds you are all right, and they will come along in good time, but whether they be late or early you can do wonders in forcing the late ones in a warm house and retarding the early ones in a cool house, but you cannot do this without constant observation.

The next most important plant is the azalea; you can regulate them more easily than lilies. If any show decided symptoms of flowering let them flower, for there is always a good demand, but Easter is the time when they are mostly in demand. Don't forget that the azaleas will stand anything but frost, and don't forget to rub off that leaf growth at the base of the flower, which if allowed to grow will take the precedence and the flower will never develop.

A most important crop for Easter is the hyacinths, tulips, etc. I expect to write later about Easter crop of these, but will remind you now not to bring them in too early. A regular succession of bulbous stuff is easily kept up by bringing in faithfully every week what you need. As the season advances less heat is needed to bring tulips, hyacinths and narcissus into flower and the less heat they have the more satisfactory will be the flowers.

Nobody in particular seems to be an authority on chrysanthemums as an author, and I am not, but now is about time to propagate. Guard against a hot treatment at anytime. 'Mums will strike root anywhere now, while later it is more difficult. Your propagating bench should be so constructed that water will pass quickly through it and then you can root anything.

WM. SCOTT.

New York.

Business for the past few days seems to have fallen off, retrograded as it were, to the dull conditions experienced directly after New Years. Carnations are once more plentiful and consequently cheaper in price. All kinds of bulb stock are in oversupply, especially lily of the valley and tulips. Tulips are not good, but even if they were it is very doubtful if the trade in them would amount to anything, for they have evidently outlived their day in the popular fancy as cut flowers. Roses are fairly abundant in all varieties excepting American Beauty; the latter are bringing prices equally as good as last year at this time. Violets are abundant and have received quite a setback on account of the weather. The only sensation in the flower market is an advertisement by Bloomingdale Bros. in last Sunday's *Herald* in which Brides, Bridesmaids, Morgans, Meteors, etc. are offered at 59 cents per dozen, violets 59 cents per bunch and American Beauty \$2 per dozen, "as good as can be bought elsewhere for \$5 per dozen."

Preparations for the Carnation Society's meeting are well under way and all are looking forward to the great event. Lawrence Hafner has been appointed by the board of trustees of the N. Y. Florists' Club Grand Generalissimo of the floral

decorations on the occasion of the dinner, which by the way is to take place at the Broadway Central Hotel and is to be an event unparalleled in New York horticultural annals. Contributions towards the floral decorations may be sent on February 20 to Lawrence Hafner, in care of John Young, secretary, 51 West 28th street.

Carnation growers in Jersey City and vicinity have been losing a good many plants from what appears to be anthracnose. The plants died off in the field in large numbers, and are going one after another in the houses. The trouble is believed to date back to the cutting bench. J. Harrison has suffered the most and there are numerous large spaces in his benches where the plants have died out, while many of those that remain are partially dead. A peculiar feature seems to be the fact that the flowers being cut from these diseased plants are of as good quality and appearance as those from perfectly healthy plants. Mr. Harrison's white sport from Wm. Scott noted in these columns last season continues satisfactory in every way and he has in it an undoubted acquisition. The flowers are dazzling white and show that peculiar lustrous texture which is so charming in the parent variety. Rose Queen has made a good growth with Mr. Harrison, but is otherwise unsatisfactory. One sees here an old favorite, Hinze's White, which is rarely seen at present. It seems to do very well still. Daybreak, Scott and McGowan are the varieties most largely grown. Mr. Harrison added two new houses during the past season.

C. Peenecker & Sons have also increased their glass area by the addition of two handsome modern houses. Their carnations are in splendid condition. Scott, McGowan and Alaska are the only varieties grown. A long propagating house filled with cuttings rooted and rooting tells the story that Mr. Peenecker has two strings to his bow. At Leach Bros. Van Leeuwen is grown in preference to Tidal Wave. They claim that the flowers are more uniformly perfect and that the striping and discoloration so common in Tidal Wave are absent in this variety. Another favorite here, seldom seen elsewhere, is Emily Pierson. The plants are literally loaded with buds and the houses containing this variety are a wonderful sight. Mr. Leach considers Alaska a decided improvement on McGowan and will grow it in preference hereafter. To fill a certain space in the houses he claims Alaska can be grown in one-third the space occupied by McGowan in the field. The rot has troubled Scott and McGowan considerably with him, and a good many plants of both these varieties have been lost. John Nicol, who is also a large carnation grower in this neighborhood, asserts that he found the best success with McGowan and Scott when grown on dry sandy soil, whereas Daybreak gave best results from heavy land.

J. H. Taylor is sending in some very fancy grades of roses this season. Equal to the best of these are the blooms from Brides now in their sixth year. Mr. Taylor says that he sees no indication of decline in these plants yet. American Beauty in its second year is also a success. Mrs. Pierpont Morgan, Mme. Cusin and Bridesmaid are hard to beat here, and Dean Hole, Mr. Taylor's sport from Testout, is said to be considerably freer and stronger than its parent.

Alex. Burns has been devoting his time exclusively to his greenhouses at Woodside for the past year and the stock shows

the good effects of steady personal attention. He still clings to La France as a profitable rose, and claims to make more money out of Portia than of any other carnation, although Scott, Rose Queen and other varieties are all doing well here. Meteor is particularly good and Mr. Burns disputes the charge that this variety is a poor keeper after being cut. On lilies he will be heard from decisively about Easter time; no finer longiflorum and Harrisii can be found.

Boston.

The annual dinner of the Gardeners' and Florists' Club, which took place at the Thorndike on the evening of January 30, was an unqualified success. Warren Ewell was chairman of the committee, and the arrangements could not possibly have been placed in better hands. The cozy little banquet hall at the Thorndike, the scene of so many merry occasions in the history of the Boston fraternity, never looked prettier. The florists had responded liberally to Mr. Ewell's request for donations, and there was no lack of floral decorations. On the table were seven superb baskets donated by James Comley (camellias), W. E. Doyle, Geo. A. Sutherland, Welch Bros., Norton Bros., Newman & Sons and W. A. Twombly, alternating with araucarias and fern dishes. The mantels and alcoves were banked with plants from Norton Bros., Kenneth Finlayson and Warren Ewell, and over the mirrors were suspended garlands of the beautiful Clematis indivisa contributed by F. L. Harris.

In the absence of President Cotter Vice-president Finlayson took charge of the exercises. On his right sat Mr. F. H. Appleton, president of the Massachusetts Horticultural Society, and on his left Judge C. W. Hoitt, who officiated as toast master. The intellectual feast opened with the reading by the toast master of his commission, with a few remarks including a complimentary allusion to the exceeding good looks of his audience, which prepared the way for a good-natured reception of the quotation from As You Like It, "I must have liberty, withal as large a character as the wind, to blow on whom I please."

President Appleton of the Massachusetts Horticultural Society was the first speaker called upon, and he was accorded a most enthusiastic welcome. He expressed deep interest in the welfare of the club and spoke hopefully of the prospects for a new Horticultural Hall in the near future, which would supply the much needed facilities for plant and flower exhibition. His account of a recent visit to Philadelphia, and description of the new Horticultural Hall in that city, was especially interesting. M. H. Norton and F. L. Harris, who were the next speakers, endorsed all that Mr. Appleton had said in reference to the need of new exhibition halls, and pledged the hearty support of the gardeners and florists in any efforts that might be made for the advancement of horticulture. Judge Hoitt's quotation from Cicero in introducing Mr. Harris was most fitting, "As I approve of a youth that has something of the old man in him, so I am no less pleased with an old man that has something of the youth. He that follows this rule may be old in body, but can never be so in mind."

"When he speaks the air is still and the mute wonder lurketh in men's ears to steal his sweet and honeyed sentences," Henry V, Act 1, was the sentiment with which Wm. Robinson was called upon, and he responded with a series of inter-

esting stories which stirred up much hilarity. Fred Mathieson's speech was very humorous; the cathode rays streamed forth in longitudinal vibrations of good nature from his round face and he was pronounced "all right" in vociferous chorus. James Comley told of his love for flowers and plants and wished he was forty years younger. He declared that it is a mistake to say that the flower trade is over-done; cheap flowers only are over-done. His closing advice was "don't use so much manure, use more brains." Warren Ewell was introduced with "full oft we see cold wisdom waiting on superfluous folly." Warren's summary of market conditions was exceedingly good, and his speech from beginning to end, inimitable. E. M. Wood advocated the organization of a New England Association for the purpose of collecting cultural information and trade statistics, and his suggestions were cordially favored by W. J. Stewart and others. Jackson Dawson's advice to the private gardener was to grow things that nobody else can grow, and to devote less time and attention to florists' cut flower stock. Ed. Hatch on being called upon to speak brought out a substitute in Bob, the Club's ebony mascot, with his banjo, and later on songs were also contributed by Jackson and Chas. J. Dawson. Letters were read from secretaries of various florists' clubs and other prominent gentlemen, regretting their inability to be present.

The meeting of the Massachusetts Horticultural Society on February 1, was, as might be expected, a very large one, the special business being consideration of the proposition to dispose of the Society's property, with a view of moving to a more desirable and convenient location, the building committee having asked for power to sell the present structure provided a fair price could be obtained for it. In the discussion that followed it developed that the site is valued at \$750,000 or \$800,000. Considerable opposition was manifested by some of the older members present, and much sentimental oratory was indulged in, but when after nearly two hours' of talking the vote was taken it was found to be decisively in favor of selling the property, and securing a location in the Copley Square section, where a building equal to the society's needs for the next fifty years might be erected. The membership of the Society is now seven hundred and eighty-five, of whom five hundred and sixty-three are life members.

The exhibition at Horticultural Hall on Saturday, February 1, was unusually extensive for the season. Carnations were a feature. The display attracting greatest attention was a superb collection of carnations numbering nearly one thousand blooms, shown by C. W. Ward. Bridesmaid, Meteor, Storm King, Eldorado, Wm. Scott and others of Mr. Ward's specialties were shown in unprecedented quality, and the two first named were awarded honorable mention. Wm. Nicholson was also on hand with a fine display of carnations. Among the newer varieties here were Crystal, Alaska, Eldorado and White Queen. The latter is a very full white seedling from which Mr. Nicholson expects much. Peter Fisher exhibited his new white seedling Edith Foster again, and it has every appearance of a winner. Seedlings were also shown by A. Rober and H. A. Cook. There was a large showing of violets, both plants and cut blooms, from Alex. McKay, gardener to D. Nevins, and from Winter Bros. Mr. McKay's violets have already a high

reputation and those shown on this occasion were fully up to his record. Among the varieties shown were Farquhar, Marie Louise, Swanley White, Lady H. Campbell, Neapolitan and California. The plants were in 10-inch pots, and were marvels of luxuriance and health. Chinese primroses from W. E. Coburn were fine, and James Comley showed an extensive collection of camellia blooms. Harvard Botanic Garden exhibited a large collection of plants, among which was a grand specimen of *Angræcum sesquipedale*, bearing twenty-five flowers, for which a silver medal was awarded. Bussey Institute was represented by a nice lot of frezias.

At the club meeting on Tuesday evening Mr. Robert Farquhar read a paper on "The Profession of Gardening; what it is and may be." Mr. Farquhar referred to the advances made socially and intellectually by gardeners of the period, which he considered far below the progress made in other professions and contended that a combined effort should be made to raise the standard of the gardener's profession and place it on the plane to which it is justly entitled. The successful gardener, he said, cannot be an ignorant man, he must not only know its practice but its science as well, for he is placed in a position of great responsibility. Incompetent help is costly to an employer at any price, and the employment of such is a direct injury to the profession. In Europe a common garden laborer cannot pose as a gardener successfully, and patient laborious effort is required before proficiency is acquired or acknowledged. The license enjoyed by untrained men in this country is greatly injuring the standing and reputation of the profession in this country. Mr. Farquhar then gave an outline of a scheme which he believed would go far towards remedying existing evils and raising the standard of proficiency and of wages. Briefly stated the plan was to form an extensive organization of gardeners, the management of which should be placed in the hands of a few men of known reputation with committees of five members each at central points, whose duty it should be to examine applicants for situations and award certificates setting forth the degree of attainment displayed, records of all tests to be filed in the secretary's office.

The conclusion of the paper was the signal for a grand tilt and hot shot flew thick and fast. Some favored the speaker's suggestions, others believed there was abundant room in the present organization here for all investigations and reforms without the formation of any more associations. Those who believed that no work whatsoever could be demeaning, applauding the gardener who would milk cow, sift ashes or peel onions rather than be idle or hungry were hotly attacked by those who urged that the true gardener would never forget the dignity of his profession or so drag it in the mire as to perform menial duties at wages which would be rejected by a common laborer with pick and shovel in the sewer. Jackson Dawson, W. A. Manda, D. Guinivan, J. Wheeler, T. Westwood, T. J. Grey and others participated. The result was the appointment of a committee of five to consider the subject and report at the next meeting.

The committee on death of the late C. M. Atkinson presented appropriate resolutions. Messrs. W. A. Manda, P. O'Mara, Prof B. M. Watson, Jr., Wm. Scott, Chas. H. Allen, Edwin Lonsdale and W. R. Smith were reported by the executive committee for honorary membership and

duly elected. There were present W. A. Manda and C. B. Weathered.

Philadelphia.

The February meeting of the Florists' Club held last Tuesday evening was well attended, and everyone present took unusual interest in the proceedings. There was an exhibition of Bridesmaid roses by Messrs. Jos. Heacock, Myers & Samtman and F. Hahman & Son. Each vase contained magnificent blooms, being perfect in every respect; the best exhibit was decided by a vote of the members to be by Messrs. Myers & Samtman; the other two vases received the same number of votes each, showing their general excellence. There were also choice bunches of Annie Lonsdale and Della Fox carnations by Myers & Samtman, and of Maud Dean and Jubilee by Edwin Lonsdale; these latter attracted considerable attention. A little collection of well grown favorites or new varieties or kinds of flowers is very attractive to the average florist and adds considerably to the interest of the meetings.

The chief interest, however, centered in the question of the evening, "Is it advisable to have a tariff on plants?" This was handled admirably by Mr. Craig. He said that he had taken hold of the subject with some fear and hesitancy, as he was afraid the subject might drift into politics, and this he wished particularly to avoid. He wanted the subject considered from a business standpoint only, from the point in which it affected our bread and butter. The principal plants imported were kentias, araucarias and azaleas; others were tried, but did not carry well, and these two classes as well as dormant roses and the bulbous class would be about the bulk of the stock affected if a prohibitive tariff were imposed. In Europe it costs much less to produce stock than it does here. In England the best men are paid but one pound (\$5) per week, and in Belgium the same skilled labor costs but \$3 for the same time. Ghent being able to produce plants much cheaper than England, as a consequence there is talk of a protective duty over there, although England has always boasted of her free trade prosperity. We can't pay our present wages here and grow kentias as cheap as they can be imported; it is out of the question. "It is my firm conviction that it can't be done, and I am ready now, after looking at the question from all sides, to advocate a duty of 40% on all classes of imported stock such as is grown and used in our business. I consider this a fair but not prohibitive duty, and one that would make it profitable for growers to go into the business of raising such stock as is now nearly all imported, and think it would be better to keep the money that is sent abroad at home, where it can be used advantageously in the increasing of the plants and enabling the growers here to fill the demand with home grown stock."

There was a difference of opinion as to whether the azalea could be grown here as well as it is abroad, but Mr. Craig thought it could, and with profit to the grower, the only difference being that of wages, as suitable soil, temperature, etc., could be found here.

Hybrid roses imported so largely could also be grown here. Storrs & Harrison Co. had gone largely into this stock, and a duty such as he had suggested would enable them to fill their orders profitably and with more satisfaction to their customers. Other classes of plants now imported could also be grown here, and

would soon find suitable climates in this vast country if foreign competition was restricted. Even bulbs it was thought by many could be grown in certain sections in this country quite as well as abroad. This duty would also prevent the ruinous auction sales which flood the country with cheap stock, as this class could not carry such a duty and sell. Looking at all the pros and cons of the question, it was Mr. Craig's firm conviction that a duty of 40% would be a good thing for the trade all over the country.

Geo. Watson said he would like to see the duty, as he would get his profit on the duty as well as on the stock imported, and for that reason he was for the increased tariff. Henry Michell said he was on both sides of the fence; he would like to see a duty on seeds, so that the general trade would not import them so largely, yet he did not think he would like to lay out \$40 for every hundred dollars' worth of stock imported, the same as he had to wait sometimes for his bills. He believed it would keep a lot of small men from going into forcing cheap bulbs which never paid them or anybody else.

Mr. Heacock spoke of the change of front of Mr. Craig, who was the chief advocate in having plants put on the free list in the McKinley bill a few years ago, and spoke of the immense establishments Mr. Craig had seen in free England, so much larger than anything here, and also of the immense amount of glass given up to growing luxuries, which were so cheap there that even the poor could buy them. He said protectionists never think of the consumer, only of themselves.

Mr. Westcott was much in favor of a tariff, and after making a dig at the present administration brought down the house by saying he wasn't talking politics. He said the proposed duty would shut out the foreign salesman, who after taking all the orders he could flooded the auction houses with his surplus and ruined the florist's market.

Mr. Craig said in answer to Mr. Heacock that in a measure he could not help himself when he went to Washington in relation to the tariff; he was sent to do this by the Florists' Club, and he wrote out the clause that was inserted in the bill, while his fellow committeemen who met with him went out and had a game of ten pins. The present duty of 10% since inserted is nothing but a tax; it does not prohibit. Messrs. Kennedy, Berry, Bearn, Farson, Kift and others took part in the discussion; a motion to vote on the question was shut off by a motion to adjourn, which prevailed and closed one of the best meetings held for some time. The entertainment committee promise something out of the usual in their line for the next meeting, and it is hoped that there will be a large attendance.

Business is increasing and stock is moving very well at about the same prices as last week's. K.

Chicago.

The market is agreeably stiff this week; in fact there is a marked scarcity in roses. No great quantity is coming in, and the demand is brisker than at any time during the season. Prices run from \$6 to \$8 for Brides and Bridesmaids, Meteors \$8. The quality is as a rule good, and the change to clear cold weather will improve it. The scarcity during the past week is rather surprising, but a good many growers seem off crop. Carnations are much more plentiful than they were; there is a great stock of Tidal Wave in all qualities, but no overstock of white.

Prices run all the way from \$1 to \$2, while Rose Queen stands above all the others at \$3. Emily Pierson and Lizzie Gilbert are now seen, and sell well when good stock. Violets are much easier than they were; some days they are scarce, and some there is a big stock; price \$1 to \$1.25.

In bulb stock matters are about the same as last week. Dutch hyacinths have slackened a little in supply owing to a gap between crops; they sell at 50 to 75 cents a dozen. The lilac and white sorts are the best sellers. There is not a great deal of Von Sion about, but this and the yellow tulips go very slowly. Yellow seems out of favor entirely; buyers demand pink above all other colors. Valley, Harrisii and freesia are about the same as before.

At a recent private exhibition of American drawings in the Auditorium P. J. Hauswirth produced a very pretty decorative effect. The exhibition was held in the banquet hall, the walls on which the pictures were displayed being covered with a cream-white fabric. A slight arrangement of galax leaves on this white ground surrounded the artists' portraits. The main feature was a false ceiling of wild smilax arranged on a level with the frieze. Electric lights above this gave a charming woodland effect, other lights being on the walls only. A few palms were well grouped at various points of vantage, the result being one of artistic simplicity.

Cleveland.

Business of late has been fairly good. There has not been any great rush at any particular time, but the demand had been very even and steady from one cause or another, preventing any serious loss of stock, so that both growers and dealers are about as well satisfied as they can be—which may not be saying a great deal after all. Dutch bulbs are fairly in now and are shown in very good quality, although they do not bring the fancy prices of a few years ago. Among the rest are a few Von Sions that seem to go a little better than hyacinths and tulips, probably owing to the sentimental side that people have for the name "daffodils." Sentiment comes in right handy once in a while. New crop lily of the valley has been in stock for quite a while, and though deficient in foliage has shown a very high percentage of salable flowers. Certainly compared with several batches of storage pips that the writer saw lately, both from the standpoint of quality and profit, the new stock was infinitely preferable. This would also apply to some of both kinds forced as far back as Christmas.

The weather so far this winter has been somewhat in favor of the grower as far as temperature is concerned; cold waves during January at least, have been almost unknown, while the thermometer has hovered almost continually in the vicinity of the freezing point. Last year during January and February it very seldom got away from the zero point, and when it did it usually took the downward direction. As a result, coal bills are favorably affected.

There has been but little fluctuation in prices since the holidays, unless the antics of combination delicatessen and flower stores come under that head. In this case roses were sold at sixty cents per dozen, but in the last year we have become somewhat accustomed to such phenomena and they no longer excite more than passing comment. In other stock, prices have held fairly steady with the ex-

ception of carnations which have shown a slight tendency to drop, although they do not seem to have been over plentiful in general.

The entertainment that took the place of the regular meeting January 28, developed a very good time for everybody. There was a very large attendance and the manner in which everything passed off reflected the greatest credit upon the efficient management of Mr. Bunyard and Mr. Paddock, who had entire charge of the arrangements. Cigars, music, magic, refreshments both solid and liquid all combined to put everybody in a frame of mind to enjoy the "speechifying," in which Judge Dellenbaugh took a star part. The writer knows a fellow though who can fumigate a greenhouse all right, but who tackled his first pipe that night. He knows now how a luckless greenfly must feel about it. Anyhow, everybody had a jolly good time. Those who were there are glad of it, and those who were not, have retired to the seclusion of the potting shed, so that they may have full scope to kick themselves as thoroughly as circumstances justify. A.

San Francisco.

Prices the past week have ruled rather low, especially violets, which are bringing \$1 per dozen bunches. California also have taken a tumble to \$1.50 per dozen. Roses are beginning to get scarce, as the first crop is about over. They are likely to remain so now for several months. Harrisii are now making their appearance and are selling very well at from \$2 to \$2.50 per dozen stems. Good long stemmed American Beauties are also rather scarce. Carnations sell very well at \$2.50 per 100. Some very good Scotts are coming in from Menlo Park, which find a ready sale. Chinese sacred lilies bring about \$1 per 100. Dutch hyacinths are coming in but go rather slow. Good plants in pots bring from \$1.50 to \$2 per dozen, but not a great quantity is sold.

Pansies are seen in the florists' windows now; they retail at 50 cents per dozen plants, Serveau Bros. having especially good ones. This firm has made a specialty of good pansies for several years and have a very fine strain.

Prof. G. J. Hansen gave a very fine lecture on "Native Flora of California" at Cooper's College last week. Quite a large audience was present and the lecture was very complete. Mr. Hansen said that over 1000 varieties of native flowers were to be found growing on the shores of San Francisco Bay. He also explained the different uses to which many of them are being put, especially the eschscholtzia from which opium is now being made.

The rain is still falling since my last notes, and is now decidedly overdone, especially for seed growers. Some of the big onion fields on the lowlands of Santa Clara are entirely under water, and unless it dries up very rapidly an immense acreage will be destroyed or rotted. The same will apply also to cabbage, sweet peas and other seeds.

The program for the "Carnival of Roses" at San Jose in May is complete. This is to be the grandest floral fete ever given in California. The program is a very lengthy and elaborate one.

Some of our florists and importers are in a bad way as regards Japanese bulbs. Large orders were taken in the spring and summer for delivery now. On account of the great cholera scare there is a very strict quarantine on all vessels coming from there now in San Francisco harbor. Some of them have hundreds of

cases of *Lilium longiflorum*, *speciosum*, *rubrum* and *auratum*, which if they lie out in the bay many weeks longer, will be worthless and a dead loss to the owners. There is also a large quantity of cypresses and Japanese maples in quarantine.

METEOR.

Montreal.

The Montreal Gardeners' and Florists' Club held their annual meeting on Monday, the 27th ult. The following officers were elected for the ensuing year: President, John Walsh; first vice-president, George Robinson; second vice-president, Wm. Whiting; secretary, Fred Bennett; treasurer, A. C. Wilshire; assistant secretary, Wm. Wilshire. Executive committee, James McKenna, Walter Wilshire, Joseph Bennett and Jules Betrix. The secretary's report showed the club to be in a very satisfactory condition. The treasurer's report was also very satisfactory, showing a handsome balance on hand. The committee appointed at a previous meeting to secure a charter for the club reported that the matter was well under way and would be complete by the next meeting. The annual dinner took place after the close of the meeting, fifty members sitting down, President Eddy presiding, with the president-elect on his right. After a sumptuous bill of fare was done justice to the business of toastmaking and song singing was taken up, which was continued into the small hours of morning. "The retiring officers" was responded to by Mr. Halliday, "Our sister societies" by Mr. Jos. Bennett, for the Horticultural Society; "The Seed Trade" by Wm. Graham of Wm. Ewing & Co., "The Private Gardeners" by G. Pasco, "The Retail Florists" by A. C. Wilshire, "The Society of American Florists" by James McKenna, who in the course of his remarks suggested that the S. A. F. should be invited to hold the convention of 1897 in Montreal. The suggestion met with general approval by all present. "Our American Cousins" was responded to by Mr. Wm. Cook of Plattsburgh, N. Y., an old Montrealean. Speeches were also made by the president, the president elect Walsh, Geo. Robinson, John Perrin and several press representatives.

Some capital songs were given by Wm. Wilshire, A. Pinetteau, Frank Bennett and others. Mr. Graham contributed a couple of good songs and recited a short poetical speech, which was delivered at a chrysanthemum show in Ireland last fall, which was thought very good. Altogether it was the general opinion that the ninth annual dinner was a grand success and the best we have had. BEAVER.

Washington.

Violets have been unusually scarce for the past ten days; last week they could scarcely be had, and what few there were were poor; but are coming in a little better this week. Roses too were scarce, but will be plentiful with a few days' sunshine. This season Meteors have been unusually dark with all our growers, only a small percentage of them being salable. No one can account for this defect, as the plants are apparently in a healthy condition.

Gude Bros. have had a fine display of good white, pink, yellow and red tulips since January 20; they are in fine condition, perfect flowers, stems 12 inches long. They are usually the first to bring in home grown bulbous stuff. Azaleas in flower are in demand, the prevailing price being from \$1.50 to \$2 a plant. Large plants

bring from \$4 to \$5; the smaller ones are more in demand. Roses are retailing from \$1 to \$5 per dozen, \$2 and \$3 being the prevailing price. A good many *Harrisii* are on the market, bringing \$3 per dozen. Callas are plentiful, but not in great demand, retailing for 25 cents each.

REYNOLDS.

Rochester, N. Y.

The annual meeting of the Western New York Horticultural Society was held here on the 22nd and 23rd of January and showed a very large attendance from all parts of the states. President W. C. Barry's opening address was very interesting to all nurserymen and fruit growers, and the many essays and reports on different topics during the session were appreciated by all. It is to be regretted that this society does not pay more attention to floriculture, although every year the president appoints a committee on flowers and greenhouse plants to report in the next meeting, such reports are very meagre, while exhaustive essays on every other subject are forthcoming, followed by long discussions which to some of us seem, at times, rather tiresome and in many respects superfluous.

The E. R. Fry Floral Company, which was incorporated with a capital stock of \$2,000 last June (some time after the assignment of Mr. Fry), in the annual report as published in the papers shows assets to the amount of \$1,414.17 and debts amounting to \$1,107.93. The officers of the company are: President, secretary and treasurer pro tem, Miss Anna I. Rockfellow; vice-president, Fred Wells.

J. B. K.

Pelargoniums

Mrs. R. Sandiford
AND

Mme. Thibaut.

A few hundred of these valuable varieties. They pay for cut flowers alone.

Fine, strong, sturdy plants in 3-inch pots,
\$2.00 per Dozen: \$12.50 per 100.

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Orders booked now for fresh imported stems, fronds and roots cut off; best long-leaved variety. Delivery from March 1st. Cultivated Cycas always on hand, rooted and well established, at low prices.

Lil. Auralum, Spec. Rubrum et Album, Etc.
Iris Kämpferi, in 100 choice varieties.
Japanese Maples, in best varieties.
Camellias, Paeonies, Tree Ferns, Rhaps, Etc.
Araucaria excelsa, choice cultivated stock at lowest prices.

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We are now offering a fine lot of

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FROM careful personal inspection of all the new and old varieties in the famous pea growing districts in California, and from actual selling qualities shown in the San Francisco Flower Market—the largest in the world for this flower—we find the following seven kinds, for size, stems, prolific habits and other most desirable qualities unequalled. They comprise the leading salable clear colors which are always appreciated. Fill seven vases each with 100 sprays of these, and set them in a row in your window, and you need fear no competition in your trade on this flower.

BLUSHING BEAUTY, clear Daybreak pink

HER MAJESTY, pure solid rose.

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EMILY HENDERSON, best florists' white.

COUNTRESS OF RADNOR, soft lavender.

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BLANCHE FERRY, early pink and white.

PRICES.

1 ounce each, 7 ounces, postpaid, 35 cts.

2 ounces each, 14 ounces, postpaid, 60 cts.

1-4 pound each (1/4 lbs.), postpaid, \$1.00.

YOUR CHOICE, prepaid, ounce 5 cts., 1-4 lb. 20 cts.; 1 lb. 50 cts.

EMILY HENDERSON, lb. 40 cts.; 3 lbs for \$1.00.

AMERICA, the new scarlet and white, pkt. 15 cts., 5 pkts. for 60 cts.

CUPID, dwarf white, pkt. 25 cts.



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All valuable stock sent post free

And every risk assumed by me.

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Your continued favors is my plea.

Address cash with order, please.

Very truly yours for service,

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From choice flowering wood, free of disease and well rooted.

American Beauty.....	2½ cts
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Young Rose Plants.

In 2½-inch pots, ready about March 1st.

American Beauty.....	\$5.00 per 100
Mrs. Pierpont Morgan.....	6.00 "
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Holland grown, 2 year..... 12 for \$3.75; per 100, \$27.50

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We are the Largest Growers of Verbenas in the country.

Our plants cannot be surpassed.

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Orders for less than one-half inch space not accepted.

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insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

KANSAS.—They were in raised beds.

MR. GROVE P. RAWSON, the florist of
Elmira, N. Y., is contributing a series of
interesting articles on "British Guiana
from an English point of view" to the
Sunday edition of the Buffalo *Express*.

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with F. L. Olmsted & Co., has started in
business on his own account as landscape
and planting designer with offices at 125
Tremont street, Boston, and 160 Fifth
avenue, New York.

THE ANNUAL REPORT of W. S. Egerton,
Superintendent of the Parks of Albany,
has been received. It gives an interesting
account of the operations of construction
and maintenance of the several parks in
the city. Work on the reservation known
as Beaver Park has progressed favorably,
and when completed this will be an im-
portant addition to the public domain.

AMONG CATALOGUES recently received
by us special mention is due that of John-
son & Stokes, Philadelphia, for their use
of the new illustrative process by which
objects are photographed in colors directly
from the specimens. The beauty and
fidelity to nature thus produced render
the process of extremely great value, and
though yet in its infancy it promises to
revolutionize our present systems of color
printing. Messrs. Johnson & Stokes are
also to be congratulated on their use of
truthful half-tones for their black and
white illustrations.



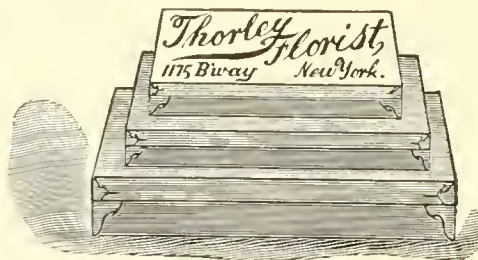
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WHOLESALE
Cut Flowers & Florists' Supplies
WIRE DESIGNS.
1402 PINE STREET,
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Wholesale Florist,
1122 PINE STREET,
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A complete line of Wire Designs.

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We will have Feb. 6 sample blooms of all
the standard new varieties, which we will assist
in disseminating. Come and see them. Our Feb-
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A. & F. RÖLKER,
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—NEW YORK.

Cut Smilax
15 CENTS PER STRING.
THE NATIONAL PLANT CO.
CASH. DAYTON, OHIO.

DAN'L B. LONG,
FLOWERS AT WHOLESALE.
Strictly Commission Business.
SUPPLIES, ETC. BUFFALO, N. Y.
LISTS FREE.

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Per 100
PTERIS TREMULA, 3-inch..... \$5.00
" ADIANTIFOLIA, 3-inch..... 4.00
" " 2½-inch..... 2.00

These are nice bushy plants for immediate use.

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SPECIALISTS,
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"The National"

Folding Flower Boxes are the best
and most convenient ever put upon
the market. They are made from
board, manufactured especially for
these goods, and made so as to resist
moisture, thereby keeping the flow-
ers fresh, and the box holding its
shape.

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CUT FLOWER CO.,**

119 and 121 W. 23rd St., and
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**IS NOW
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The Largest Dealers in

**CUT FLOWERS
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Handling flowers of all kinds in quantity
we are in a position to fill shipping orders
promptly. We shall give careful attention
to this branch of the business, and solicit
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FLORISTS**
JOEBERS IN
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SUPPLIES,
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VASES.
METS,
BRIDES,
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.
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HORTICULTURAL AUCTIONEERS.
Always mention American Florist.

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Wholesale Florists,
NO. 2 BEACON STREET,
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Asparagus Plumosus Nanus.
Cut Strings, 8 to 10 feet long,
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Wholesale Commission Florists
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If you want First-Class Flowers, properly packed and delivered on time, send me your orders and you will get what you want.

We are now prepared to furnish Florists' Wire Designs and a full line of Florists' Supplies.
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 Wire Designs a Specialty.
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NEW YORK, Feb. 5.	
Roses, Beauty, extra grades.....	8.00@50.00
" culls.....	5.00@10.00
" Perle.....	2.00@5.00
" Testouts.....	10.00@15.00
" Cushin, Watteville.....	2.00@6.00
" Bride, Bridesmaid.....	3.00@8.00
" Meteor, Morgan.....	6.00@12.00
" Common mixed stock.....	2.00@4.00
Carnations, ordinary.....	50¢ 1.00
" fancy.....	2.00@3.00
Violets.....	.50@1.00
Valley.....	1.00@2.00
Harrissl.....	6.00@8.00
Daffodils.....	2.00@4.00
Mignonette.....	2.00@15.00
Roman hyacinths and paper white.....	1.00@2.00
Tulips.....	1.00@2.00
Cypripediums.....	10.00@12.00
Cattleyas.....	30.00@40.00
Lilac, per bunch.....	1.00
Adiantum.....	1.00
Asparagus.....	50.00
Smilax.....	12.00

BOSTON, Feb. 5.	
Roses, Gontier, Niphetos.....	3.00@5.00
" Perle, Hoste.....	4.00@8.00
" Bride, Bridesmaid, Mermet.....	5.00@12.00
" Meteor.....	5.00@8.00
" Beauty.....	10.00@50.00
Carnations.....	1.50@2.50
" fancy.....	2.50@3.00
Violets.....	.75@1.00
Valley.....	2.00@4.00
Harrissl, callas.....	12.00
Paper white narcissus.....	2.00
Romans.....	2.00
Freesia.....	1.50
Daffodils double.....	2.00
" single.....	1.00@2.00
Stevia, Marguerites.....	1.00
Mignonette.....	2.00@4.00
Cypripediums.....	12.00
Adiantum.....	1.00
Smilax.....	12.00
Asparagus.....	50.00

PHILADELPHIA, Feb. 5.	
Roses, Beauties.....	8.00@50.00
" Brunners.....	25.00@40.00
" best selected teas.....	8.00@10.00
" seconds and small stock.....	6.00@8.00
" Morgan.....	10.00@12.00
Carnations, general stock.....	1.00@2.00
" selected and choice kinds.....	3.00@4.00
Harrissl.....	8.00@12.00
Valley.....	4.00@6.00
Romans and Paper White.....	2.00@3.00
Violets.....	.75@1.50
Mignonette.....	2.00@3.00
Freesia.....	1.00@2.00
Smilax.....	15.00@20.00
Asparagus.....	50.00
Maldenhair.....	1.00

CHICAGO, Feb. 7.	
Roses, Beauties.....	25.00@50.00
" seconds.....	6.00@20.00
" Perle, Morgan, Siebrecht.....	1.00@3.00
" Brides, Bridesmaid.....	6.00@8.00
" Meteors.....	6.00@8.00
" Testout.....	6.00@10.00
Carnations.....	1.00@2.00
" fancy.....	2.00@3.00
Harrissl, callas.....	12.50
Valley.....	4.00
Violets.....	1.00@1.25
Roman hyacinths.....	2.00@3.00
Narcissus (paper white).....	3.00
Hyacinths, Dutch.....	6.00
Narcissus Von Slon.....	4.00
Freesia.....	3.00
Smilax.....	12.50@15.00
Asparagus.....	50.00

ST. LOUIS, Feb. 5.	
Roses, Beauties long.....	25.00@50.00
" select stock.....	5.00@8.00
" general stock.....	2.00@4.00
Carnations, select.....	2.00@3.00
" ordinary.....	1.00@2.00
Valley.....	5.00@6.00
Harrissl.....	12.50
Callas.....	10.00@15.00
Romans.....	1.00@3.00
Paper white narcissus.....	2.00@3.00
Daffodils double.....	3.00@4.00
" single.....	1.00@2.00
Mignonette.....	2.00@4.00
Violets single.....	.25
" double.....	1.00@2.00
Smilax.....	12.00@15.00
Freesia.....	2.00
Asparagus.....	50.00
Adiantum.....	1.00

BUFFALO, Feb. 5.	
Roses, Beauties.....	20.00@40.00
" Meteors.....	6.00@8.00
" Bridesmaid, Mermets, Bride.....	6.00@8.00
" Cushin, Perle.....	5.00@6.00
Carnations, fancy.....	1.50@2.00
" common.....	1.25@1.50
" short.....	.75@1.00
Harrissl.....	12.00@15.00
Callas.....	10.00@12.00
Romans.....	3.00
Valley.....	4.00
Violets.....	1.00@1.25
Tulips.....	3.00@4.00
Daffodils.....	4.00
Smilax.....	12.00@15.00

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 Successor to PECK & SUTHERLAND,
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 67 Bromfield St., BOSTON, MASS.
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**SPECIAL EXTRA STOCK OF
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Finest MIGNONETTE in the world.

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Roses Shipped to all points. Price list on application.

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Careful Shipping to all parts of the country.
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AMERICAN SEED TRADE ASSOCIATION.

S. E. BRIGGS, Pres.; T. W. WOOD, 1st Vice-Pres.; ALEX. RODGERS, 2nd Vice-Pres.; A. L. DON, 114 Chambers St., New York, Sec'y and Treas. The fourteenth annual meeting will be held at Niagara Falls, N. Y., June 9 to 11, 1896.

C. P. BRASLAN is in Omaha.

C. C. MORSE & Co. of Santa Clara have incorporated their business. The capital stock is placed at \$200,000, divided into 2,000 shares, fully paid up. The directors are C. C. Morse, Lester L. Morse, B. W. Morse, M. J. Morse and Eva H. Morse.

THE 1896 SEED catalogues are probably the handsomest and best ever issued—this in the face of all the complaints of hard times and low prices. Has each one expected his neighbor to weaken, and therefore made his own best efforts to improve?

Seed Beans in Ventura County, Cal.

It is estimated that there are over 125 varieties of beans grown in this county. The majority being for eastern seed houses. A close estimate based on warehouse reports places the output of seed beans for the season of 1895 at 750 tons, valued at \$60 per ton. This branch of the bean industry is growing rapidly.

Still Anxious for Seeds.

WASHINGTON, D. C., Jan. 29.—The House Committee on Agriculture to-day finished the bill making appropriations for the support of the Agricultural Department for the fiscal year 1897. The total amount carried by the bill is \$3,158,392, as against \$3,303,750 appropriated for the present fiscal year. The \$3,300,000 carried by last year's bill for the purchase and distribution of valuable seeds, but which was unexpended by Secretary Morton, is again appropriated, the sentiment of the committee apparently being in favor of the continuation of the practice that prevailed for so many years.—*Chicago Tribune*, Jan. 30.

Calla Lilies.

Noting some questions about these plants in the FLORIST would say that one plan is to plant them out in a center bed 30x8. They are never moved and bloom all the year round. At Easter last year the bed was a mass of bloom, all selling well. W. J.

Canada.

THE WORCESTER COUNTY Horticultural Society, Worcester, Mass., has issued its schedule of premiums for 1896. The usual series of exhibitions will be held during the season.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By first-class, all-round florist, good propagator, American, good references. I. P. HERSEY, Amesbury, Mass.

SITUATION WANTED—By a florist on private place; good cut flower and bedding plant grower. TEMPERATE, care American Florist.

SITUATION WANTED—By a competent florist and gardener; lifetime experience in all departments; capable of taking charge. Address Box 551, Lowville, N. Y.

SITUATION WANTED—As manager commercial place, 20 years' experience; good business ability, reliable; state terms. Address COMMERCIAL, care Am. Florist.

SITUATION WANTED—As grower; thoroughly understands the growing of roses, carnations, and the forcing of all kinds of florists' stock. THOS. MCKENZIE, 1529 Wabash Ave., Chicago.

SITUATION WANTED—By a gardener, experienced in roses and general stock growing; good references; can attend to steam boilers. Address R. JOSEPH 4 Chambers Square, New York City.

SITUATION WANTED—By one of the best florists in this country; only permanent and \$50 per month will please. OLIVER KING, foreman Rocky River Nurseries and Greenhouses, Rocky River, O.

SITUATION WANTED—By a first-class rose grower; have worked on one of the largest places in the country; good worker, sober, steady, age 26; good recommendations. C. B., care American Florist.

SITUATION WANTED—By first-class florist and gardener, young married Swiss, to take charge of gentleman's place with greenhouses. Best of references. Address C. G., care American Florist.

SITUATION WANTED—Store work at once by a skilled decorator and design maker, capable of taking sole charge; many years' experience, references. FLORIST, Floral Co., Mt. Sterling, Ky.

SITUATION WANTED—By a single, willing young man in greenhouse, sober, energetic, with one year's experience at an A No. 1 place; United States preferred. Address with full particulars JOHN ROITKE, Winchester P. O., Mass.

SITUATION WANTED—On private place by young man, age 25; 5 years' experience in forcing of fruits and vegetables, growing of bedding plants, ferns, etc., and care of lawn and garden. Address A. E. WOHLERT, care Penna. R. R., Altoona, Pa.

SITUATION WANTED—A young man with capital but without knowledge of the business, desires to serve an apprenticeship with a practical florist in the vicinity of New York City, with a view of later forming a partnership. Address W. G. L., care American Florist.

SITUATION WANTED—After February 15, by a first-class florist, a manager of commercial or private place, graduated from a horticultural college in Sweden, 11 years experience, five from one of the leading rose establishments of America; thoroughly acquainted with the management of the greenhouse and hothouse; energetic, single, age 21; only a first-class place wanted; best of references. Address with particulars Box 231, Cromwell, Conn.

SITUATION WANTED—By a young married man to take charge of a small private or commercial place; thorough, practical experience in growing all kinds of cut flowers, fruits and vegetables under glass; good cut flower worker and decorator, expert propagator of all kinds of florists' stock, shrubs, evergreens, etc.; good knowledge of the wholesale plant trade; references from first-class private and commercial places; disengaged 1st of March; East preferred. Address H. W., care Am. Florist. Eastern Office, 47 Bromfield St., Boston.

WANTED—To lease or buy on easy terms, a florist establishment of about 10,000 feet of glass, in or near Chicago preferred. Address with full particulars, D. F., care Stolley Bros., Argyle Park, Sta. X, Chicago.

WANTED—Manager, up-to-date grower of commercial flowers, who will buy a partnership in 10,000 ft. of glass, well stocked. Only houses in western town of 40,000. Address with references. P. W. R., care American Florist, Chicago.

WANTED—A No. 1 rose grower of a large commercial place; good position. Only those able to grow roses, carnations, violets, chrysanthemums, etc., need apply, with reference and fullest particulars. L. G. PFUNDER, 427 Wash. St., Portland, Ore.

FOR SALE—Five greenhouses, located in the healthiest climate of the west. For particulars, address Box 562 Canon City, Colo.

FOR SALE—Good paying retail florist's establishment in live city; price moderate terms easy, good trade. Write and I will explain in full. Address RETAILER, care American Florist.

FOR SALE—Florist business, established 7 years; good locality, and best funeral design trade in the city, with greenhouse attached. For particulars, apply to JOHN NEW, 21 Adelaide Street East, Toronto, Canada.

FOR SALE—Fifteen greenhouses five acres, dwelling, barns, completely equipped florist's establishment and business for sale; located in the 23rd ward, Flatbush, Brooklyn, N. Y. A fine opportunity to obtain an established business. Apply to HENRY W. STERHILL, 13 Wilmoughly St., Brooklyn, N. Y.

FOR SALE—22 greenhouses and 5 acres land, about 1 acre under glass, with or without land and in good condition houses filled with stock; will be sold at a bargain if taken at once, as I intend to go out of business. For information address MR. C. J. DEUSTER, 948 Winnebago St., Milwaukee, Wis.

The Great WORLD'S FAIR Success.

"Lemoine's Hybrids are the chief glory."
—*American Florist*, Aug. 17, 1893.

GLADIOLUS Lemoinei and Nanceianus.

(170 first-class named varieties offered at low

The best new Forcing Shrub

Deutzia Lemoinei,

Each 5 francs; per dozen 48 francs

Apply to V. LEMOINE & SON, Nancy, France.

New plants a specialty. Catalogues free. Mention American Florist.

Cinerarias and Calceolarias—Strong, healthy stock in all the brightest colors. Cinerarias, 3-inch, \$4.00 per 100. Calceolarias, 4-inch, \$6.00 per 100. Calceolarias, 3-inch, \$4.00 per 100. Azaleas, large plants full of bud, 65 cts. each.

S. WHITTON & SONS, Wholesale Florists, City and Green Sts., Utica, N. Y. Mention American Florist.

FUCHSIAS.

... Choice Mixed.

GOOD ROOTED CUTTINGS,
\$1.00 per 100,

By Mail Prepaid.

S. O. STREBY,

Lock Box 77,
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CLEMATIS Jackmanni, and all large flowering varieties, \$17 per 100

Rhododendrons, Snowball, H. P. Roses, Azaleas, Tree Roses, Pæonia Chinensis, Tree Pæonia, Double Flowering Crataegus vars., Lilacs, Hydrangea, Magnolia with buds, Etc., Etc.

ASK FOR PRICES.

L. C. BOBBINK, RUTHERFORD, N. J.
Branch of the Horticultural Co., Boskoop, Holland.
Mention American Florist.

New, Rare and Beautiful Plants

LORD PENZANCE'S New Hybrid Sweetbriars, Old Garden Roses, New Roses, Standard Roses, PHILADELPHIC LEMOINEI; NEW LILACS; LONICERA HILDEBRANDTII; SPIRÆA "ANTHONY WATERER," Etc. A large collection of rare Hothouse and Greenhouse Plants.

ANTHURUS, ALOCASIAS, ORCHIDS, RARE CONIFERS, and other Beautiful EVERGREENS.

MAGNOLIAS, JAPANESE MAPLES, with other Choice TREES and SHRUBS.

PEONIES.—A large collection of the finest in cultivation. Hardy Perennials, Phloxes, Japanese Iris, Roses, Clematis, etc. New and Standard Fruits, etc. See Catalogues on application.

JOHN SAUL, WASHINGTON, D. C.

SEMPLE ASTER

Pink.

Choice Seed.

1-4 Oz. 50 cts. Oz. \$1.50.

GEO. ARNOLD, Jr., Rochester, N. Y.

NEW GOLDEN YELLOW TROPÆOLUM "COOLGARDIE," (May).

One of the finest novelties of the season, flowers pure golden yellow, of free growth, and will keep up a succession of bloom throughout the season. First-class awards from Royal Horticultural and Royal Botanic Societies. I can offer a limited quantity of seed of the above, price 25 cts. per pkt. of 12 seeds, post free.

H. B. MAY

Dyson's Lane Nurseries, Edmonton, London, England

Zirngiebel Asters and Pansies

are without doubt the best in cultivation.

ZIRNGIEBEL'S WHITE, for early.

SEMPLE'S WHITE and SEMPLE'S ROSE, for late. Also Early Dwarf White Stock. All

in Trade Packets, at one dollar each.

DENYS ZIRNGIEBEL, Needham, Mass.

Will's Show.

Sweet Peas....per pkt., 200 seeds, \$1.00

Pansies..... " 50 " 1.00

Nasturtiums... " 100 " 1.00

One pkt. each of the above FOR \$2.00, by mail, postpaid. Only a limited number of these wonderfully beautiful mixtures to spare this season.

OSCAR H. WILL & CO., Fayetteville, N. Y.

WE WANT ROOM.

For the next 10 days only, I offer fine healthy and well rooted cuttings of Carnations:

Rose Queen, \$3.00 per 100; \$25.00 per 1000. Wm. Scott, \$1.50 per 100; \$10.00 per 1000. Daybreak, \$1.50 per 100. Cash with order. Satisfaction guaranteed.

FRED. SCHNEIDER, Florist,
751 Crawford St., Cleveland, O.

WE HANDLE
ONLY

Seeds

that are especially grown for a critical Market Garden and Florists' trade. There are tons of seeds grown to sell cheap. You don't want them if your living or your satisfaction in life depends on the result. In our

GARDEN AND FARM ANNUAL FOR 1896

you will notice the illustrations are from direct photographs. They stand for Truth and Honesty and Honest Seeds back them up at Honest Prices. It is full of meat, written for business and to business buyers it is sent free. We also issue a Wholesale Quarterly for Market Gardeners and Florists.

JOHNSON & STOKES, 217 & 219 Market Street,
PHILADELPHIA.

Buy Seeds of BURPEE

Get the BEST and Save Money!

Write to-day for BURPEE'S BLUE LIST,—giving Wholesale Prices for Market Gardeners. Choice **YELLOW DANVERS ONION** at 75 CENTS PER POUND,—**RED WETHERSFIELD** at \$1.00 PER POUND.

Have you read BURPEE'S FARM ANNUAL FOR 1896? It is a handsome BOOK of 184 pages. Price 10 cents (less than cost), but mailed FREE to all who intend to purchase Seeds. WRITE TO-DAY! Do not delay. Address

W. ATLEE BURPEE & CO., PHILADELPHIA, PA.

ASTER SEED.

SEMPLE'S STRAIN of Asters, the best and only strain for florists to make money out of the cut flowers. Large flowers like chrysanthemums, long stems and exquisite colors, excellent for growing inside in summer. Flowers bringing from \$1.50 to \$3.00 per dozen.

Read the following from Randolph & McClements:

PITTSBURG, January 14th, 1896.
MR. SEMPLE, Bellevue, Pa.—"The Aster Seed purchased from you produced the finest flowers I ever saw. Under glass in summer they will make the best summer flower we can get, producing flowers 4 to 5 inches in diameter."
Yours truly,
RANDOLPH & McCLEMENTS.

Mixed Seed, three kinds, Pink, White and Lavender. Separate colors all sold.
Seed all grown in 1895.

JAMES SEMPLE, Box 2, BELLEVUE, Allegheny Co., PA.

NORTHROP, BRASLAN, GOODWIN CO.

Being **GROWERS** we are in a position to supply **Seeds of First-Class Quality** and to make **specialty low prices**. A trial will convince those who have not yet found this out.

NORTHROP, BRASLAN, GOODWIN CO.

20 to 28 Hennepin Ave., MINNEAPOLIS, MINN.

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WE ARE HEADQUARTERS ON
**BULBS FOR FORCING,
FLOWER SEEDS FOR FLORISTS
ENGLISH MUSHROOM SPAWN.**

Special prices on application.

**JOHN GARDINER & CO., Seedsmen,
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WE SELL SEEDS

Florists' Flower Seeds and Sweet Peas
a specialty. Highest quality.
Special prices.

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\$2.00.

In either stiff or flexible cover.

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CHOICE SEEDS.
VERBENA GRANDIFLORA.

An exceedingly fine collection of Giant flowering varietal; flowers one inch in diameter of the most showy colors. My customers write that this is the finest strain of Verbenas they can get; requires no better evidence of superiority. Every florist should sow of it.
Per trade pkt., 25c.; 3 pkts., 60c.; 6 pkts., \$1.00.

JOHN F. RUPP, Shiremanstown, Pa.

EXTRA CHOICE FLOWER SEEDS.

List free on application.

**FRED. ROEMER, SEED GROWER,
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FLOWER SEEDS FOR PRESENT SOWING.

Trade pkt. (7)
Ampelopsis Veitchii 10 20
Alyssum, Sweet 65 20

ASTERS.

Victoria, white, pink, crimson light blue,
dark blue, each..... 25 2.50
Same, all colors mixed..... 25 2.00
Truffaut's, separate colors..... 25 2.00
All colors mixed..... 25 2.00
White Branching..... 25 2.50
Giant Comet, white..... 10 2.50
Cosmos, early flowering hybrids, new..... 20
Daisy, Vaughan's Mammoth mixed..... 25
Mammoth white..... 25
Extra choice mixed..... 25
Lobelia Speciosa, running..... 10 1.00
Crystal Palace Compacta..... 25 3.00
White Gem..... 25
Golden Gem, yellow leaves..... 25
Musk Plant..... 10
Mignonette Machet..... 10 2.50
Musa Ensete, 100 seeds, \$1.50.....
Pansy, Giant mixed..... 50 5.00
Pansy, Vaughan's International Mixed..... 50 10.00
Trimardeau, mixed..... 10 2.00
Petunia Hybrid, best dbl. large flowering..... 1.00
Best large flowering single..... 1.00
Phlox, Snowball..... 25 2.50
Fireball..... 25 2.50
Stocks, large flowering Ten Weeks, white,
pink, crimson, light blue, dark blue,
canary..... 75 2.50
Best mixed..... 25
Snowflake for forcing..... 50
Verbena hybrida, fine mixed..... 10 75
Extra choice mixed..... 25 1.50
Mammoth, mixed..... 25 2.00
Forbrook Mammoth..... 25
"Vaughan's Best" mixture is better than
any..... 25 3.00
White..... 25 1.50
Delance, scarlet..... 25 2.00
Striped..... 25 2.00
Purple..... 10 1.00
Vinca rosea, alba, alba pura or mixed, each..... 10 1.00

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NEW YORK:

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Choicest Florists' Seeds

And a full line of **Spring Bulbs**, offered in our New 1896 Trade List, free on application.

Florists' Supplies

In largest assortment and best quality.
Illustrated Wholesale List free.

August Rölker & Sons

136-138 W. 24th St., New York.

Mammoth Verbenas.

New, large-flowered, very fine quality.
Per Ounce, \$1.50.

CHOICE FLOWER SEEDS For Florists.

Price List free on application.

HERRMANN'S SEED STORE,

413 E. 34TH STREET,

Near Long Island Ferry, NEW YORK.

EXTRA

Choice Imported Flower Seeds, only small selection of the best varieties for Florists' use.

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THE JENNINGS STRAIN OF FINEST
AMERICAN CROWN PANSIES.

In pkt. of 200 seeds \$1.00, very finest mixed, all colors.
Large flowering plants all sold.

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Garnation Orders BOOKED NOW.

Good, clean, well-rooted stock. NO RUST.
Per 100 Per 1000

BRIDESMAID.....	\$5.00	\$40.00
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STORM KING.....	5.00	40.00
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E. A. WOOD.....	3.00	25.00
GOLDFINCH.....	4.00	35.00
WM. SCOTT.....	2.50	20.00
BLAZ ALBERTINI.....	3.00	25.00
DAYBREAK.....	3.00	25.00

CHRYSANTHEMUMS.

Mrs. W. C. Egan, new (ready March 1).....	Each	Doz.	100
Tippecanoe, new (ready March 1).....	\$.50	\$5.00	\$35.00
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Mr. E. M. Bigelow.....	1.00	8.00	
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Major Bounaffon and other choice older standard sorts.....	.75	5.00	

Send for descriptive trade list.

F. DORNER & SON,
LA FAYETTE, IND.

The Crack Carnations:



SCOTT, ALBERTINI,
DAYBREAK, MCGOWAN.

Selected Cuttings, well rooted in sand and soil, delivery February 15th and later, \$2.00 per 100; \$15.00 per 1000.

Send your order at once, with cash, to get these figures. . . .

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The two leading varieties

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Buy from the originator and procure genuine stock. CUTTINGS NOW READY.

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ROSE QUEEN, DAYBREAK, WM. SCOTT,
VAN LEEUWEN, TIDAL WAVE, Etc.

Write for price list.

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Successors to H. E. CHITTY.

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The best YELLOW CARNATIONS to grow for profit. ROOTED CUTTINGS now ready, @ \$5.00 per 100. Also 30,000 strong rooted cuttings of suitable kinds for summer bloom.

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GERANIUMS—Rooted Cuttings.

\$1.50 per hundred. 2-inch pots, \$2.50 per hundred.

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DO YOU WANT CARNATIONS?

If so, why not GROW the BEST?

50,000 ROOTED CUTTINGS, including Daybreak, Wm. Scott, Goldfinch, Lizzie Gilbert, Emily Pierson, Lizzie McGowan, Tidal Wave, S. Spray, Hinze's White, &c. Can do you justice in quality and prices. Write me before you buy. Address CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

CARNATIONS.

Selected Cuttings

GROWN FROM

Selected Stock Plants

PINK—Bridesmaid, Triumph, Scott, Della Fox, Rose Queen, Albertini, Daybreak.

WHITE—Storm King, Alaska, Annie Lonsdale, McGowan.

RED—Meteor, Jubilee, Portia.

YELLOW—Goldfinch, Kittie Clover, Eldorado.

VARIEGATED—Helen Keller, Amazinda, Minnie Cook.

CLEAN STOCK AT FAIR PRICES. SEND FOR TRADE LIST.

THE COTTAGE GARDENS, Queens, N. Y.

CARNATIONS—Rooted Cuttings.

STORM KING, from sand or soil,	\$5.00 per 100; \$40.00 per 1000
BRIDESMAID, “ “	5.00 “ 40.00 “
METEOR, “ “	5.00 “ 40.00 “
SCOTT, “ “	2.00 “ 15.00 “
MCGOWAN, “ “	2.00 “ 15.00 “
ALASKA, “ “	5.00 “ 40.00 “

CASH WITH ORDER, PLEASE.

CHAS. H. ALLEN, Floral Park, N. Y.

ROOTED CARNATION CUTTINGS.

If you want to be successful in growing good flowers that will bring paying prices get your cuttings from prize winners. Our blooms are bringing the highest prices and we have been unable to supply the demand. We received a gold medal at the Atlanta flower show for best collection and all the first premiums on the schedule (7) at the same show; four first premiums at the Madison Square Garden show, New York, where our flowers came in competition with those from the best growers in the country; likewise in Baltimore and Cincinnati.

We can fill orders for 100 or 50,000 of all the best varieties up to date and guaranteed free from rust, fine, vigorous, well-rooted cuttings.

Let us know your wants and amounts and we will give you prices which we believe will be satisfactory for high class plants.

Be careful in selecting your stock as this is the foundation for either success or failure.

Send for price list.

BOX 57.

H. WEBER & SONS, Oakland, Md.

50,000 CARNATIONS ROOTED CUTTINGS

Now Ready

Positively clear of RUST. Send for price list.

William Swayne,
P. O. Box 226. KENNETT SQUARE, PA.

THE BEST

WHITE ALASKA PINK SCOTT

CARNATIONS

HEALTHY STOCK NOW READY.
C. PESENECKER & SON, 290
JERSEY CITY, N. Y.

NEW BISMARCK APPLES.

1 and 2 years old, for 3 months.

CH. KOEHLER, Five Points Nursery,
Oxford Church P. O., Phila., Pa.

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Orders solicited for ROOTED CUTTINGS.

KOHINOOR takes the lead.

Other Novelties of the Standard sorts at standard prices. All healthy and strong.

C. J. PENNOCK,
The Pines. KENNETT SQUARE, Chester Co., PA.

CARNATIONS PEACHBLOW.

Rooted Cuttings ready April 1st, '96, \$5.00 per 100, and \$45.00 per 1000.

Book your orders early and be sure that you will get them. Sample blooms sent free.

ESTATE OF M. A. HUNT, Terre Haute, Ind.

CARNATIONS.

MRS. FISHER, cuttings, from soil, \$1.00 per 100; \$8.00 per 1000. 27" Or will exchange for rooted GERANIUMS.

Davis & Baird, Dixon, Ill.

News Notes.

FRANKFORT, IND.—Mr. Henry Kuntz, the florist, died January 29.

SOUTH CHARLESTON, O.—C. S. Battin is building a carnation house 31x20.

NORTHPORT, N. Y.—T. H. Cross has built one new house during the past season.

SPRINGVILLE, N. Y.—Geo. Stafflinger has put up one new house 110x16, also a dwelling adjoining the new greenhouse.

WORCESTER, MASS.—W. B. Warner, of West Boylston has opened a florists' store at 301 Main street, this city. The store will be in charge of Mrs. Warner.

SALAMANCA, N. Y.—The Wildwood Cemetery Association has built one rose house 20x75 feet, natural gas being the fuel. The place is rented by E. H. Sommerfeld.

ROCHESTER, N. Y.—Geo. T. Cooper, a market gardener of this city, committed suicide by hanging at his home on January 28. He was prosperous in business, but had been in poor health of late.

PAWTUCKET, R. I.—Mr. S. J. Reuter of Westerly has leased the extensive greenhouses of Richard Harrison on the Pawtucket Pike. The plant includes a dozen large houses recently erected, and thoroughly equipped.

DENVER, COLO.—The Lewis Commission Co. have started in as wholesale florists at 1709 Curtis street. This will be the first wholesale cut flower commission house in this city. The concern will also handle florists' supplies.

ALLIANCE, O.—F. Zimmerman has added a house 20x40 for growing early vegetables. Leroy L. Lamborn is building 2 rose house 20x150. He is operating a retail cut-flower store in Canton, O., supplying it from the greenhouse here.

WHITE PLAINS, N. Y.—The firm of Schmitt Bros. has dissolved and the business will now be carried on under the name of P. A. Schmitt, florist and nurseryman. Mr. Schmitt is now building five houses on Barker avenue, 15x60, with steam heating. Trade is very fair; cut flowers are in fair demand.

SPRINGFIELD, MASS.—The Hampden Horticultural Society and the Amateur Horticultural Society, both very large organizations, and for some time past rivals in the horticultural field, are likely to be united into one organization. Prominent members of both associations are deeply interested in the plans for a union of the two societies.

Farquhar Violets.

From 2½ in pots	- - -	\$5 per 100
California in pots in bud	- - -	\$4 per 100
Campbell Runners rooted	- - -	\$1 per 100

C. E. WELD,
VIOLET SPECIALIST. ROSLINDALE, MASS.

GREEN AS GRASS.
Verbenas rooted cutting in eight separate colors.
Per 1000 **\$7.50**, per 100 **80c.**

For quality of stock see Rochester notes in AMERICAN FLORIST, issue of October 5th, 1911.

FRANK S. PAYNE,
Cash with Order **WHOLESALE FLORIST.**
Barnard Crossing, N. Y.

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PALM SEEDS

WE GUARANTEE full germinating power & replace seeds non-germinating

Cocos Weddelliana	Per 1000	\$12.00	\$55.00	\$100.00
Areca lutescens	Per 1000	10.00	47.50	90.00
Areca rubra	Per 1000	10.00	47.50	90.00
Geonoma gracilis	Per 1000	12.00	55.00	100.00
Geonoma Schottiana	Per 1000	15.00	65.00	120.00
Latania borbonica	Per 1000	2.75	12.00	20.00
Corypha australis	Per 1000	.75	5.00	22.50
Chamaerops excelsa	Per 1000	.50	3.50	15.00

Pandanus Utilis
In excellent condition.
\$1.50 per 100, \$12.50 per 1,000, \$50.00 per 5,000.
Chas. Schwake, 404 E. 34th St., New York.

6,000 BEGONIA NIVEA,
AT REDUCED PRICES.

The New Everblooming Apple Blossom Begonia. We have a large stock of this grand winter blooming and summer bedding plant; it being covered with elegant panicles the whole year round, making it a valuable market plant. In color it is of a delicate pink when in bud, expanding through lighter shades to snowy whiteness when in full flower, giving it an apple-blossom appearance, that is unique, and what the ladies call "just lovely."

In order to make room, and to place in reach of all, we offer 6,000 plants only at reduced rates if ordered before March 1st, 1912, after which date, prices will be advanced. It is a most vigorous grower, propagates easily, and has come to stay. The plants are well branched, well established and first-class in all respects, and sure to give satisfaction. Up to date florists should secure some of this stock for their floral work.

We guarantee safe arrival in good condition, and extras added to all orders of one dollar and upwards by express. Cash with the order. 50 plants at 100 rates.

From 2½-inch pots	Each	Doz.	100
2½ in. pots, ex strong plants	15.10	\$.75	\$ 4.00
4-inch pots, well branched, full bloom	20.15	1.00	6.00
5-inch pots, ex strong heavy plants in bloom	25.20	1.25	8.00
6-inch pots too large to mail	35.25	2.00	12.00
Rooted Cuttings to order, \$30.00 per 1000	.30	2.50	15.00
Strong stems with leaves, buds and bloom			2.10
Large panicles ships well			1.00

J. ELLETON,
Floral Nurseries, AUBURN, N. Y.

ORCHIDS OUR SPECIALTY.

THE FINEST STOCK AND SELECTION IN THE WORLD.

New and Rare Plants for the Stove, Greenhouse and Conservatory.

SANDER, St. Albans, England, & Bruges, Belgium.
A. DIMMOCK, Agent, care Rolker's Auction Rooms, 106 and 108 Liberty Street, New York City
Send for illustrated catalogue.

Bulbous Begonias.

LAING'S STRAIN in separate colors.
Lilium Longiflorum, Tuberoses, Spiraes, etc. Now on hand.

Ask for prices.

HULSEBOSCH BROS., Englewood, N. J.
When writing mention the AMERICAN FLORIST.

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reliable goods are offered. We offer **CARNATION CUTTINGS** free from disease at following prices:

Ivory	Per 100	\$10.00	Thos. Cartledge	Per 100	\$2.00
Della Fox	10.00	Heler Keller	2.00		
McGowan	2.00	Lorenze Thompson	5.00		
Silver Spray	1.50	Sweetbrier	5.00		
Wm. Scott	2.00	Ophelia	5.00		
Daybreak	2.00	Lizzie Gilbert	5.00		
Tidal Wave	1.50				

And twenty-five other varieties at lowest prices.

ELLIS & POLLWORTH,
Box 75. MILWAUKEE, WIS.

PALM Seed.

Orders taken now for Spring and August delivery of the following varieties

germinating power 75 to 90 per cent

CROP '95 & '96.

Areca lutescens	100	1000	5000
	\$1.25	\$10.00	\$45.00
Cocos Weddelliana	1.25	10.00	47.50
Geonoma gracilis	1.50	12.00	70.00
Latania borbonica	.35	2.50	10.00
Kentia Belmoreana	1.00	7.50	35.00
Forsteriana	1.00	7.50	35.00

Now on hand, fresh stock:

Erythia armata	1.50	12.50
doleis	1.50	12.50
Sabal serrulata	.50	4.00
Washingtonia filifera	.25	2.00
robusta	.35	3.00
Asparagus plumosus nanus	1.25	10.00

J. L. SCHILLER, Rutherford, N. J.
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SANDER, Bruges, BELGIUM.

Agent: **A. DIMMOCK,**
106 & 108 Liberty Street, NEW YORK.
SEND FOR SPECIAL OFFER.

SPECIALTIES

IN BEST VARIETIES.

ROSES, from 3-inch pots.
CARNATIONS, for full delivery
CHRYSANTHEMUMS.
SMILAX.

VIOLETS.

Prices low. Send for list.

WOOD BROTHERS, FISHKILL, N. Y.
When writing mention American Florist.

E. G. HILL & CO.,
Wholesale Florists

RICHMOND, INDIANA.
Mention American Florist

NOVELTIES For FLORISTS and SEEDSMEN.

ROSES—White Rambler, Golden Rambler, New Climbing Meteor and Carmine Pillar.

CRIMSON RAMBLER—\$5.10 per 100. Field grown, \$15.00 per 100. Extra fine plants, 3 to 5 feet high, \$25 per 100. Other roses at low prices. Send for list.

SPIRÆA ANTHONY WATERER The Crimson Spiræa. The Ideal Pot Plant for Florists. Introduced last year at \$2.00 per plant, our price today \$3.00 per 100.

BULBS—Chinese Sacred Lilies, \$4.00 per 100. Lilium Candidum, fine bulbs, \$2.00 per 100. L. Longiflorum, \$2.00 per 100. L. Speciosum Album, \$6.00 per 100. L. Spec. Rubrum, \$5.00 per 100. L. Auratum, \$3.00 per 100. All other bulbs.

CANNAS—12 New Cannas, our own raising, \$6.00, warranted satisfactory or money refunded. Crozy's Cannas of '94, 20 cts. each; set of 20, \$3.00. 50 named cannas, 50 sorts for \$5. French Cannas, \$12 per 100.

DAHLIAS—All the latest introductions. Mrs. Pearl the white Cactus Dahlia, \$10 per 100. Nymphaea, the pink cut flower Dahlia, \$7 per 100. Mixed Dahlias, \$4 per 100.

IMPERIAL MORNING GLORIES Double and single flowers, 6 inches. Seed, \$3.00, \$20 and \$40 per pound.

FANCY FLOWER POTS AND JARDINIÈRES Largest assortment in the country. Send for catalogue.

A. BLANC & CO.,
PHILADELPHIA, PA.

BETTER THAN EVER. CHEAPER THAN EVER.

CHRYSANTHEMUMS.

(Ready February 1st.)

APOLLO—Gracefully incurved yellow, late, fine form, good stem and foliage, free grower, always produces perfect flowers, height 3½ feet. A No. 1 commercial variety, and a grand single stem pot plant. Strong, healthy plants from 2-inch pots, 20 cts. each; \$15.00 per 100. 25 at 100 rate.

MRS. J. M. ATHERTON First-class certificate at Atlanta. Large white, spherical Chinese, in fact the largest and best white of this class, surpassing Miss Gladys Spaulding in every respect. Extra stout stem and large handsome foliage up to flowers, height 3 to 4 feet. Excellent pot plant and commercial cut flower variety. From 2-inch pots, 25 cts. each; \$15.00 per 100.

MRS. S. T. MURDOCK—The best commercial pink and **PHILADELPHIA**, \$7.50 per 100.

The following varieties at \$2.50 per 100; 50 at 100 rate. Bonnation, Minerva, C. Chalfant, Marion Henderson, Conrades, Niveus, Marie Louise, Ivory, Queen, Good Gracious, Lady Playfair, Pres Wm. R. Smith, Mrs. J. Geo. H. Enfant des deux Mondes.

Nothing but vigorous, cool grown plants sent out.

NANZ & NEUNER, Louisville, Ky.

THE WM. H. MOON CO.

MORRISVILLE, Bucks Co., PA.

Offer the following to the Trade:

DAHLIAS—20,000 finest and best.

CANNAS—10,000 mixed and named sorts.

HONEY-SUCKLES—20,000, Evergreen, Halliana and Golden.

CLEMATIS PANICULATA—10,000, one and two years old.

CALIFORNIA PRIVET—200,000, one and two years old.

FLOWERING SHRUBS—250,000, all sizes and varieties.

DECIDUOUS TREES—500,000, for streets and lawns.

EVERGREENS—500,000, large, medium and small.

Correspondence solicited in reference to anything needed in the way of nursery stock.

Don't wait and get left, but get your orders in.

Per 1000 Per 100

Mme. Sallier Geranium..... \$12.00 \$1.50

Rose Geraniums..... 20.00 2.25

Cuphea platycentra (Cigar Plant)..... 8.00 1.00

Feverfew Little Gem..... 10.00 1.50

Salvia splendens..... 10.00 1.25

Alternanthera p. major and aurea..... 6.00 .75

The above are grown in flats, and in the condition.

ROOTED CUTTINGS.

Golden Queen, the only all around yellow

Coleus, and Crimson Verschoffelt..... \$ 6.00 .75

Coleus in variety..... 5.00 .50

Double Petunias..... 12.00 1.50

Fuchsias, named varieties..... 12.00 1.50

Heliotrope..... 8.00 1.00

Double Golden Marigolds..... 12.00 1.50

Ageratum, blue and white..... 8.00 1.00

Selection of sorts to remain with us.

Cash with the order.

J. E. FELTHOUSEN, Florist, Schenectady, N. Y.

CHRYSANTHEMUMS.

Choicest Seed, 25c. per pkt.

Most complete collection in the world. 500 varieties to select from. Send for list.

THESE 20 AS SAMPLE, FOR \$1.00.

Olympus, Zuluinda, E. Heacock, E. Dalledouze, Crystallina, Gold Dust, Gladys Spaulding, Wm. Seward, G. Pitcher, Freedom, Titian, L. B. Black, Silver Cloud, S. T. Murdock, Princess May, Mrs. Parker, Yellow Queen, W. A. Bryant, Mrs. R. Dean, Lady Playfair.

T. H. SPAULDING, 40 E. 25th St., New York.

New * Chrysanthemum IVOIRE ROSE,

A Sport from Ivory. Without doubt the best all round variety grown for general purpose. In color it is a beautiful silvery pink. **NO GROWER SHOULD BE WITHOUT IT.**

We offer plants from 2-in. pots, March 1st delivery, at \$3 per doz.; \$20 per 100.

ORDERS BOOKED AND FILLED IN ROTATION.

JOHN BREITMEYER & SONS,
DETROIT, MICH.

TWO BEAUTIFUL NEW CHRYSANTHEMUMS

GRETCHEN BUETTNER.

MRS. E. BUETTNER.

A large, beautiful white of great depth; distinct in color and form. Strong stem and fine foliage. 3½ ft. Crown bud. Certificate of Merit Horticultural Society, Chicago. First Class Certificate N. C. S. (See AM. FLORIST, Nov. 16)

\$5.00 PER DOZEN; \$35.00 PER 100.

READY MARCH 1, 1896.

E. BUETTNER, Park Ridge, Ill.

A beautiful clear yellow reflexed flower, in form like Morel, with excellent stem and foliage. Late. 3½ feet. Crown bud.

First Class Certificate N. C. S.

\$4.00 PER DOZEN; \$25.00 PER 100.

ORDERS BOOKED NOW.

PINK IVORY,

(MISS AGNES L. DALSKOV.)

Young Plants, \$2.00 per Dozen; \$10.00 per 100.

ORDERS BOOKED NOW FOR DELIVERY MARCH 1st.

M. HANSEN, New Durham, N. J.

OUR NEW CHRYSANTHEMUMS FOR 1896

Have been fully indorsed by the
Chrysanthemum Society
of America.

Descriptions and prices free on application.

NATHAN SMITH & SON,
Adrian, Mich.

New Seedling CHRYSANTHEMUM D. G. HUGHES.

First Premium for best yellow New York
Florists' Club Exhibition, Nov. 25, '95.

A beautiful clear yellow, flower incurving, and globular, when fully developed 22 inches in circumference; foliage and stem perfect. Fine keeper and shipper. Midseason.

READY MARCH 15TH.

\$3.50 PER DOZ.; \$25.00 PER 100.

Cash or satisfactory reference with order.

JOHN WHITE, Waverly Place, Elizabeth, N. J.

CHRYSANTHEMUMS.

80 New Varieties, including

Miss M. M. Johnson, J. E. Lager, Philadelphia Minerva, Marie Louise, J. H. Troy, Mrs. Henry Robinson, Sunrise, Miss G. Pitcher, John Shrimpton Royal Windsor, Mrs. S. T. Murdock, H. W. Riegan, Miss F. Pullman and Zuluinda. Fifteen plants for \$1. Send for catalogue. Address

M. B. LITTLE, Clens Falls, N. Y.

New Seedling CHRYSANTHEMUM Wm. Simpson.

See American Gardening, December 14th, pp. 415.
Florists' Exchange, November 23d, pp. 1144.
Garden and Forest, November 20th, pp. 465.

To be sent out March 15th, 1896.

50c each; \$5 per doz.; \$35 per 100.

JOSEPH HEACOCK,
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Ismene Calantha,

OR WHITE AMARYLLIS.

EXTRA SELECT BULBS.

Very profitable for forcing
or outdoor blooming.

\$2 per dozen; \$15 per 100; \$125 per 1000.

Also SAGOS, with from 6 to 36 leaves. Will exchange for Tuberous Begonias, Gloxinias and double white Primulas.

L. HEINL, Terre Haute, Ind.

Palms & Ferns.

Our 17 collection, 3 & 4-inch \$3, 34 for \$5; 10 4 & 5-inch \$3 50, 20 for \$6; 6 6-in. for \$5. All good selected varieties. Special sale: Choice FERNS, \$5.00 and \$6.00.

ROSES AND GERANIUMS, LABELS, MOSS, ETC.

WILLIAMS & SONS CO., Batavia, Ill.

News Notes.

ANDOVER, O.—Mrs. R. A. Pardec has added one new house 16x50.

KIRKSVILLE, Mo.—Mrs. B. F. Eades put up one new house last season, 18x37.

RONKS, PA.—Elmer J. Weaver is going to add shortly four new houses 96x9½.

KITTANING, PA.—E. A. Brodhead has built one new house, ¾-span, size 20x65.

NEW LONDON, O.—W. D. Chase is erecting one new house. A. W. Dunks intends to put up one house next fall.

SWARTHMORE, PA.—Fire recently destroyed the office of the Swarthmore Nursery Co.; loss partly covered by insurance.

WHEATLAND MILLS, PA.—H. B. Weaver & Bro. have started in business here; they will make a specialty of rooted cuttings.

FERTILITY, PA.—Martin H. Weaver has started in business here with about 7,000 feet of glass; he will grow violets and carnations.

ITHACA, N. Y.—The Bool Co. has erected a carnation house 18x76, rose house same dimensions, and two violet houses 6x76, making their total 20,000 feet.

NATRONA, PA.—G. A. McWilliams has built two new greenhouses, one 116 feet long, heated with hot water, and a propagating house about 30 feet long. J. E. Harrison has sold his nursery and removed to Springdale, Pa., and is now agent for several nursery firms.

AKRON, O.—P. Flanigan & Son started a retail store on Main street about three months ago, but have now moved to 139 Howard street. Gus Schmitt of Park Place, private gardener for Louis Miller for the last four years, since last fall has opened the greenhouse for commercial purposes.

GALION, O.—Professor A. D. Selby of the Ohio Experiment Station at Wooster, O., visited this place February 1 to gain more accurate information in regard to the disease on lettuce which threatens the lettuce growing industry in this locality. He is very enthusiastic in regard to sub-irrigation for roses which the station florist has tried and the results have been very satisfactory. Cut flower trade very dull.

KINSEY, OHIO.—There seems to be an improvement in the demand for some kinds of nursery stock, especially is this the case as to plum trees. The good crop of plums the past season has stimulated the fruit growers to an increased planting. Both European and Japan varieties are in demand. The trade in apples has also increased to some extent. Peaches are not so rapid just yet, but we believe if the peach orchards go through February and March uninjured there will still be a heavy demand for peach trees.

HUDSON, N. Y.—R. W. Allen has sold his nursery to the City of Hudson for cemetery purposes, and has purchased a lot on Green street, Hudson, N. Y., removing all his greenhouses and making some additions. He has now 12,000 feet of glass and will give up the nursery business and carry on the florist business only. His new place is just completed; the whole place including office and store are heated by hot water. The houses are well built, eight in number, potting and packing sheds, cellar for cut flowers and everything suitable for retail trade.

ROSES, TREES, BULBS, PLANTS.

200,000 Strong, hardy, nursery grown Roses.
150,000 Pot Roses, Teas, Chinas, Bourbon, etc.
Greenhouse plants of all descriptions.

100,000 Elegant Poplars, 5 to 25 feet, Carolina Aurea, Lombardy.

ONE THOUSAND CAR LOTS of OTHER ORNAMENTAL TREES, SHRUBS, Etc.

250,000 Peach, choicest sorts.
150,000 Pear, standard and dwarf.
100,000 Plum, best European and Japan.
75,000 Cherry, Morellos, Hearts, etc.
150,000 Apple, Quince, Apricot.

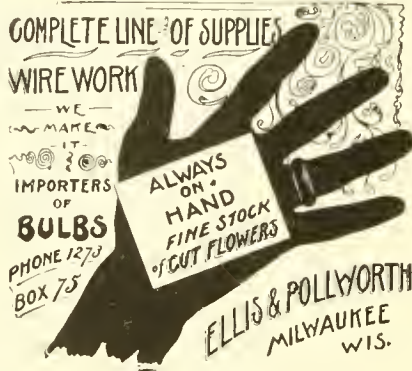
100,000 Nut bearing trees.
2,000,000 Small Fruits, Grapes, Currants, Gooseberries, Raspberries, Blackberries, Dewberries, Strawberries.

We occupy one and a half miles on the bank of Lake Erie. No healthier, hardier trees are grown on the continent. Catalogue and Trade List free. Lower quotations given on large lots. Write us We can do you good

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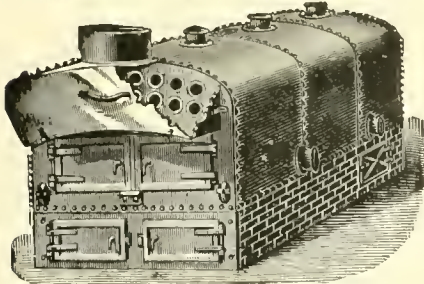
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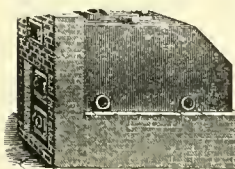
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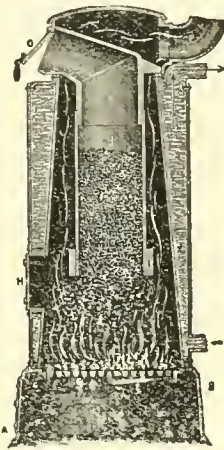
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News Notes.

MUMFORD, N. Y.—J. F. Ward has added a new violet house, 10x80.

BROOKLYN, N. Y.—Richard Shannon, near Greenwood Cemetery, has erected three new houses.

FRANKLIN, PA.—Mr. P. Heilig who was a private gardener, has bought the plant houses of the assigned estate of J. S. McGarry, which have an area of about 3 000 feet.

MADISON, Wis.—J. E. Williams added about 3 000 feet of glass during the past season. F. W. Brezice is out of the florist trade, and A. N. Ames has given up the seed business. Cut flower trade is improving.

WEST GROVE, PA.—John McLimans has leased the greenhouses owned by H. M. Jackson. He will grow carnations and tomatoes for the Philadelphia market. Truman Cooper & Bro. have purchased the establishment formerly owned by James Lovett.

JAMESTOWN, N. Y.—A. L. Thrall made an addition to his glass last summer. Ross & Hetherington, who opened a store at 115 Main street last summer, have no glass, but confine themselves to a retail business. S. S. Butterfield moved to 106 Main street January 1.

AMESBURY, MASS.—Mrs. Fred. Hibbs had the contents of two houses frozen during the recent cold snap and has decided to close the houses. Ira P. Hersey has sold his cut flower business to John F. Johnson, a bookseller from whom Mr. Hersey leased the space he formerly occupied.

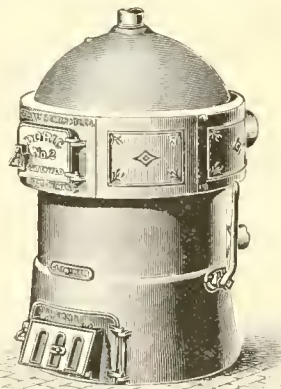
GLENS FALLS, N. Y.—A. J. Binley, who opened a florist and seed store at 1 Monument Square last spring, reports business as good and promise of a greater amount of business in seeds the coming season. He will add about 800 feet of glass next summer. H. L. Crandell & Co. a short time ago made up a new design in the shape of a rug, over which stood the casket, it was composed of about 1,200 roses.

ASHEVILLE, N. C.—The Idlewild Floral Co., are building a rose house 25x100 feet, to be heated with hot water. They also intend to build a plant house 12x95 feet in the spring. This gives them something over 13,000 square feet of glass. E. E. Brown of the Brownhurst Greenhouses has built a small violet house, about 10x50 feet. C. Zbinden has leased the Victoria Greenhouses formerly occupied by J. M. Patton and has built a show house 16x75. Trade for January was 25 per cent. better than for January 1895. Violets are just coming in, they have been growing finely all winter but the flowers have failed to materialize until now.

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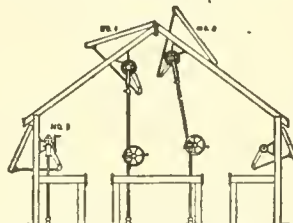
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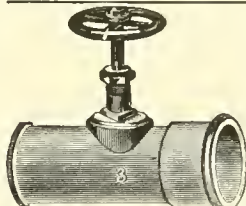
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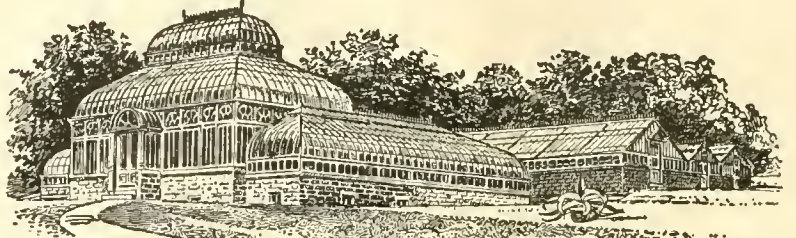
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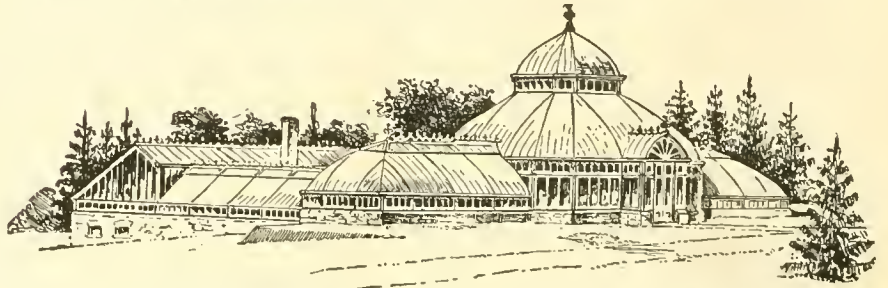
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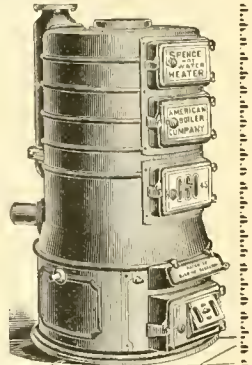
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Vol. XI.

CHICAGO AND NEW YORK, FEBRUARY 15, 1896.

No. 402

THE AMERICAN FLORIST

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The twelfth annual meeting will be held at Cleve-
land, O., August, 1896.

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WE very much regret to have to announce a serious accident to President Wm. Scott. He had the misfortune to slip on the icy sidewalk last Tuesday evening when leaving the greenhouses, breaking his left leg, and is now confined to his room. His hosts of friends in the trade will warmly sympathize with him and wish him a speedy and complete recovery. The accident explains the incompleteness of the miscellaneous seasonable hints from Mr. Scott's pen in this issue.



Carnation Spot.

Enclosed find sample of carnation Lizzie McGowan, which seems to be affected with rust or some disease. Will you kindly give us your opinion as to what it is and the cure; the other kinds are not affected and in the same house.

B. & Co.

This is not rust, but appears to be what is commonly called the spot. The copper solution may be effective; and give some nourishment in the form of liquid manure, not too strong, but often. The twisting of stem and leaf most always indicates an impoverished condition, or unsuitable soil.

FRED DORNER.

Rust.

If carnation rust has once got a good lodging on carnations, would the syringing with the solution help any yet? If so please give formula of the mixture.

J. U. K.

No, if the rust has one got a good lodging the solution will kill some of the spores, but it is unable to effect a radical cure. But, disease or no disease, it is well to apply the solution as a preventive for fungus of all kinds. The copper solution as we use it is: One pound sulphate of copper, dissolved in one quart of ammonia in a stone jar, or more ammonia when not sufficient to dissolve the copper. Take one pint of this solution mixed with one more quart of ammonia in one barrel of water and syringe. The solution can be kept in the jar well covered ready for use.

FRED DORNER.

Rust and Fairy Ring.

What will kill the rust?

I have also what Prof. Kinney of the R. I. Experimental Station calls "fairy ring" that seems to me to be even worse than the rust. What can you recommend?

N. D. P.

The ammoniacal solutions have all proved insufficient for a radical cure. They will help to keep the rust in check, by killing part of the spores, but not more. Of late I have watched some experiments made by Mr. Hill of Richmond, Ind., with arsenic. His formula is one pound of dry arsenic to one barrel of water. At my visit there in December he showed me

some badly infected plants of Uncle John under treatment, and at my last visit, the 6th of February, I found these plants free from rust. I seems the arsenic follows the rust to the inner tissues of the leaves and kills effectually. Of course the leaf will have to go with it, and dries up, but there are no bad effects on the healthy parts of the plants. The plants in question have to all appearance taken a new start to grow. Mr. Hill told me, as arsenic is rather hard to dissolve, a chemical solution made by a druggist and then used with the water as recommended above, may prove still more effectual. If further experiments will prove as effectual as the one I noticed, and as Mr. Hill thinks it will do, there is hope for an extermination of the rust.

I have not any experience with fairy ring; hardly know what it is. As it is a fungus I suppose it can be reached with some ammoniacal mixture, for instance the copper solution. The carnation has so many enemies among the fungi, and it is always good to have some sulphur on the heating pipes, as it is used in rose houses for mildew. It will not effect an immediate cure, but makes it very congenial for fungus to grow.

FRED DORNER.

Under Glass in Summer—Pot Plants.

I was very much interested in the carnation discussion in the FLORIST of February 1. There are many valuable points there, and that number has been laid aside for careful study and reference. Mr. Dorner's article in same number is, as usual, very instructive.

His experience, however, does not agree with some tests of growing under glass during summer here, as the finest Buttercups I have seen this season were grown in the house all summer. There is simply no comparison whatever with field grown plants in the same bench.

I think that light is wanted on the method of growing carnations in pots during summer either inside or out. Does it pay? Is the cost of pots, labor, etc., compensated for by the lessened check in housing? I do not recollect seeing these points touched on in the FLORIST. Some seedlings in 6-inch pots plunged in ashes in June and housed in early October have made a remarkable growth for us.

Northbrook, Pa. C. P. BARNARD.

SANDUSKY is the name of a new seedling carnation originating with E. Hall & Son, Clyde, Ohio, of which we have received blooms. It impresses us as a most attractive flower. It is variegated, the ground being pearly flesh white, with a border of carmine flakes from $\frac{1}{4}$ to $\frac{1}{2}$ inch deep. The border is distinct, yet without any artificial primness, size and texture of bloom, and stem is up to standard and the variety seems to possess real merit.



Eel-worms.

It is very much like a school boy attempting to correct a college president when I attempt to correct Mr. May. Please overlook my audacity. But like the school boy who bears the bigger boy above him in the class give the wrong answer and with upraised hand proceeds to tell what *he* knows (or thinks he knows), I wish to say a word or two about nematoids or eel-worms. That they often destroy rose bushes, by causing club root, there is no doubt. That they infest many other plants is also true; that they may sometimes be present on clover roots I do not deny. But when Mr. May repeatedly tells us that the "small round lumps or knob like appendages" on the roots of clover, "one and all contain eel-worms," I take exception.

On the roots of every healthy plant of any species of the leguminosæ family may be found these nodules or swellings to a greater or less extent. On clover roots, however, they are especially abundant. On roots of the *Lathyrus sylvestris* I have observed them as large as sweet pea seeds. In every case they are an indication of *health* and *not* disease, and are absolutely necessary for the full development of the plants. They are caused by bacteria which enable the clover and similar plants to assimilate a portion of the free nitrogen of the air.

This discovery is due to Hellriegel, a noted German chemist and is of comparatively recent date. Not a winter passes but some student in bacteriology in the Agricultural College here repeats the experiment outlined by Hellriegel, to prove that the presence of these bacteria is necessary for the full development of clover plants. A quantity of coarse quartz sand is sterilized and freed from all organic matter by burning and afterwards washing with acids which in turn are displaced by nitrogen-free water. A number of 6-inch flower pots, previously sterilized, are then filled with the sterile sand and in each several sterilized clover seeds are planted. As the plants grow they are occasionally watered with a nutritive solution containing all the elements necessary to plant growth, *except nitrogen*. A few days after germination one-half the pots are supplied with a small quantity of water, in which has been washed some soil from a cloverfield. All are then treated as before and in a few weeks, if the work has been carefully done, the results are marvelous. The plants which were kept free from the nutritive bacteria are puny, yellow and undeveloped, while those supplied were healthy and normally developed, including the nodules or swellings on the roots. The roots of the former are free from these swellings.

FREDERIC CRANFIELD.

Wisconsin Exp. Sta., Madison, Wis.

I do not wish to be presumptuous by calling attention to what I consider an error in the article entitled "Eel-worms affecting roses," in the *FLORIST* of January 25.

Although my views were published in a former issue in regard to the same matter,

I will attempt to repeat them, as I believe the truth should be known.

Not wishing to question Mr. May's knowledge in regard to eel-worms on roses, I think he errs in the clover matter, and wish to say through your valuable journal that if he can find "three" out of all the normally matured clover plants extant without root galls it will be phenomenal. Moreover I wish to ask how many of these clover galls were discovered containing eel-worms? Although the worms may have been found associated with or in their proximity in the soil, they were *not* formed by those nematodes in the normal clover roots.

Galls grow on all the leguminosæ, are nutritive tubercles, are essential to the normal development of the plant and found containing numbers of vibratory bacteria. A case of plant symbiosis in which the consortium is essential for the extraction of free oxygen from the atmosphere, for the nourishment of the plant.

But eel-worm galls are not necessary for the natural growth of the rose; quite the contrary. This worm I have frequently found in manures and soils, and may safely say they are the greatest pest we have to contend with, and are now using air slacked lime on the rose benches, thereby hoping to make an uncongenial soil for them.

A. J. PENNOCK.

Lansdowne, Pa.

Diseased Roses.

"A reader from Central Illinois" sends specimens of diseased roses and wishes to know what ails them, also what may have caused the sickness of his plants.

The soil sent is evidently of good quality, and such as might reasonably be expected to produce plants and flowers of good quality. The percentage of manure is probably too large, but we must look elsewhere for the cause of the disease. The letter states that the plants did well after planting in the benches, until the first spell of real cold weather, when many or nearly all began to shed their leaves and die down from the top downwards, that he then cut off the dead tips and added two or three inches more soil, gave two or three applications of liquid manure, but the plants failed to recover. Some made a weak spindly growth and this also died down. After this a top dressing of dry nitrate of soda was given, but everything done only seemed to aggravate the trouble. He further says that the house once got almost cold enough to freeze. From the foregoing I concluded that the trouble was caused by the low night temperature. The warm sunny days in the fall when our roses are growing luxuriantly are sometimes followed by very cool nights which if our plants are left to chance, stops the flow of sap, and gives them the "grippe" or shall I say the "shakes." If the ventilators are closed on cold nights, and no artificial heat is applied, it very frequently happens that the dampness of the house causes a dew to form on the foliage, and we find in the morning the leaves are all beautifully fringed with sparkling drops of water, very pretty, but very disastrous often to our poor plants. One night of this may not seriously injure them, but if the dose is repeated, it almost invariably happens that the young foliage suffers and drops off. This trouble can be prevented by a little fire heat, or by leaving the ventilators a few inches open all night.

When this happened to the plants in question, they should have been kept a little drier at the root, and a little cooler during the day for two or three weeks,

and then if the leafless tips had been cut off, the bad leaves all cleaned away and the surface of the soil stirred the probability is that new good growth would have been made, and in a short time the plants would have regained their normal condition. The addition of more soil was a bad move, the application of manure water doubtless a worse one, because the root action having suffered such a severe check, there was more plant food available in the soil than the plants could make use of, and any crowding in that direction only made matters worse. The plants received were too sick to pay for any codling whatever, the cheapest and best thing to do with such I think is to throw them out with all possible haste and use the space for something else. A crop of radishes and lettuce would pay better than diseased roses and be much more satisfactory.

The insects sent proved to be the common centipede, a comparatively harmless little fellow, but if it is not wanted can be quickly dispatched by a dose of wood ashes, soot or lime. ROBT. SIMPSON.



Early Chrysanthemums.

When should the first batch of early blooming chrysanthemums be put in the propagating bench (for our own flowering) to obtain the best results?

When should our stock plants be started into growth?

Would it be well to feed the stock plants before taking cuttings?

SUBSCRIBER.

To secure good blooms as early as possible, would advise early planting, not later than June 15. Strong cuttings will be sufficiently established for planting in about six to eight weeks from the time they are inserted in the cutting bench, so April 15 to May 1 will be about the right time to take them.

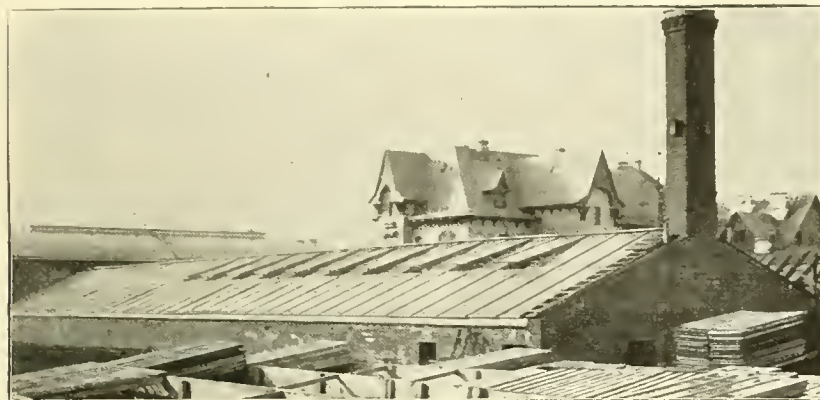
The time for starting stock-plants into growth will depend upon their condition, and the variety to be grown. Some make cuttings quickly while others are very slow, but if the stock is in fair condition they ought to make good cuttings in four weeks.

It is unnecessary to feed stock-plants although there would be no harm in so doing and possibly some benefit might be derived. Feeding is sometimes resorted to when the stock becomes inactive and do not make the growth desired. When such conditions exist Aqua Ammonia used at the rate of four (4) ounce to forty (40) gallons of water, will encourage strong growth quicker than anything we have tried. These proportions are for the FFF grade which contains about 10% ammonium.

ELMER D. SMITH.

The Florist Trade in St. Petersburg.

The accompanying engravings have been kindly sent us by Mr. M. Gebhardt, who is now in Russia, and show various details of the florist business of H. F. Eilers. Mr. Gebhardt writes that he finds



GREENHOUSES IN ST. PETERSBURG.

the trade on a much higher plane in Russia than he expected. He finds the window displays in florists' in St. Petersburg are as fine as any he saw in Paris, New York or Chicago.

The principal stores in St. Petersburg are one controlled by Rempen & Son, two by Freundlich, three by Gerstner and seven by his present employer, H. F. Eilers. The latter two are the youngest in the trade, Gerstner starting some ten years and Eilers twenty-six years ago.

Our first three illustrations show different houses in the greenhouse establishment belonging to Mr. Eilers; the lower one showing the older part of the establishment and the upper ones the more modern houses. The central one shows the rosarium, which is 40x160 feet and contains 5,000 roses of different sorts.

The large illustration shows one of the rose forcing houses which certainly presents a very strange appearance to American eyes. It seems that the climate of St. Petersburg is not at all adapted to own root roses, and to meet with success grafted plants must be used. The picture in question shows one of Mr. Eilers'

houses, the middle and back bench of which is planted with Mrs. Bosanquet; the plants were benched in 1884 and have been forced regularly every year. The plants shown in the picture were cut back September 12, 1895, and the first heat for the season was given October 1, which was 8° to 10° Reamur. Later on the heat was 10° to 14° Reamur. The plants were in full bloom December 15 and the last of the crop was cut in January. The photograph was taken October 15, 1895.

The upper one of the last two pictures shows one of Mr. Eilers' stores in the city and the lower one gives a view in his large conservatory.

Mr. Gebhardt states that the shortest days in St. Petersburg are five hours and fifty minutes from sunrise to sunset, but that the working time in the greenhouses is from 5 or 6 in the morning till 8 in the evening and that very often work is done in the greenhouses by lamp light. He says that the gardeners there examine the pictures in the AMERICAN FLORIST with much interest, as they have before heard very little about American floriculture, the only information they have had com-

ing indirectly to them through the foreign horticultural publications, especially those of Germany, and naturally details have been very meagre.

He says that Mr. Eilers came to St. Petersburg in 1863 by steamboat from Stettin with not more than 40 copecks in his pocket. He found a position with a Russian prince who hired two gardeners at 25 rubles each per month, one for his place in St. Petersburg and another for an estate near Moscow. He left the two to decide which would go to Moscow and which would remain in St. Petersburg. They determined the matter by lots and it was Mr. Eilers' fortune to remain in St. Petersburg. Mr. Eilers is now a millionaire, while the other gardener is still at his old place at a very moderate salary.

Mr. Eilers has remarked that he himself is astonished at the progress he has made from his poor start in a basement where he sold flowers which he picked up and begged from the private gardeners around the capital. Even with his present large range of glass he cannot himself raise all he sells and he takes the product of several large growers near the city and also buys heavily from Italy, the south of France and Germany during the coldest and darkest months of the year.

He uses the hot water system of heating in the greenhouses. The photographs show very well the construction. Mr. Eilers tried slate and brick in the bottom of his benches but returned to wood again. He finds the plants do not do well on a slate or brick bottom, as the latter seems to be too cold.

The roses are grafted on *Rosa canina*. Each year the soil is removed from around the roots, so far as this can be done without disturbing the plant, and new rich loam added and before the plants are started every single stem and branch is brushed and washed with soap and tobacco water.

Mr. Gebhardt writes that the florists of America are exceedingly fortunate in having such excellent trade papers which quickly disseminate information of any advance in cultural methods and devices for accomplishing work with the least effort. He says the papers issued in Europe are poorly equipped, use very few illustrations and their notes are taken mainly from foreign papers or written by foreigners, mainly Germans, who have adopted Russia as their home and have become familiar with the Russian language.

He says that trade was excellent in St. Petersburg both at Christmas and New Years. On those occasions he had a place behind the counter in one of Mr. Eilers large stores and was amazed at the manner in which the money flowed into the till. One day the receipts exceeded 4,000 rubles. The simplest arrangement of flowers sold for 2 rubles but there were many that brought 50 and 100 rubles each. The finest basket cost 200 rubles. Mr. Gebhardt promises to have photographs taken of a number of interesting floral arrangements as prepared in St. Petersburg and send to us that our readers may see the Russian styles of floral arrangement.

He said that while we had a green Christmas here, in St. Petersburg the whole country was ice and snow for eight weeks preceding and the different arms of the river Neva, on the borders of which the capital is situated, formed a solid bridge strong enough not only for people but for wagons and tramways. He says that the weather is often very cold, but there are frequent violent changes.

On January 6 there was a great festival, call The Holy Three Kings, and the baptising of the Neva. In front of the Winter Palace on the English quay a pavilion had been erected and before it a hole cut in the ice so the dark water of the sixty feet deep Neva was visible. Here the Czar and Czarina attended while the head of the orthodox church preached a sermon. The water of the river was blest, the idea being that it carries the virtue of this religious ceremony to every quarter of the earth, the river Neva connecting with the Bay of Finland, thence to the Baltic Sea and Atlantic Ocean. After the ceremony the people are admitted and every one who wishes fills a bottle with the holy water which is carefully kept till the following year. It is expected to preserve the possessor from any sort of sickness.

Mr. Gebhardt expects to travel from St. Petersburg to Moscow in the spring and will take photographs of anything of interest along the route, which he will send to the AMERICAN FLORIST.

Rose and Carnation Houses.

We are getting ready to extend our range by building six houses, each 100 feet long; two 18 feet 6 inches and four 10 feet wide. The wide houses will be used for roses and the others for carnations, etc. The question is whether we shall run them east and west, with wide houses three-quarter span or north and south, even span. We have the space to run them all east and west, but we begrudge it.

We would like to know whether in your opinion, the arguments in favor of the east and west three-quarter span house are so great as to over-balance the argument of space occupied by the necessity of separating the houses. If the houses were run east and west and the north wall of the 18 feet 6 inches houses were 8 feet high, with the south wall 4 feet what distance should separate them? If the 10 foot houses had 4 foot walls what distance should separate them?

If the houses were all run north and south what should be the depth of the sash bar used if glass 16x24 were to go in? We are in hope you may find it convenient to give us this information with as little delay as possible as we wish to perfect our plans and gather our material for an early start. SANDUSKY.

The above important questions have been sent me to answer, and in doing so I shall suggest something a little different from either plan after I have answered the questions. First I would say, as the houses are for roses and carnations, let them all be 18 feet 6 inches or 19 feet wide; instead of four houses 10 feet wide for carnations build two houses each 20 feet wide. The two will be cheaper to build than the four narrow houses, will hold about as many plants, and all carnation authorities agree that the plants do better in a large airy house.

All growers of flowers, more particularly roses and carnations, agree that it is of the first importance that the houses run east and west, or what is still better, a few points northeast and southwest. If these houses were for general plant stock or for smilax or palms, north and south is good enough, but for roses and carnations don't make any mistake; let them be broad side on to the south or a little east of south.

If you build the old regulation three-quarter span with long-span-to-the-south 8 foot wall on the north and 4½ foot wall on the south, you would have to keep

away a distance of 12 feet between houses, or the southerly house would shade the front bench of the next house on the north, and 14 feet apart would be better than 12, for you must not reckon about the sun shining over the ridge pole of the south house at 12 o'clock on the shortest day, but it should shine over it if it shines at all at 9 a. m. If an equal span or nearly an equal span with an 11 foot rafter and a 19 foot house 7 or 8 feet will be far enough apart.

The depth or strength of the bar using 16x24 glass will depend on the number of purlins you put in. The principal horticultural builders now use an iron rafter and a number of small iron purlins. In a bar of 16 feet length they would put in between ridge and plate three iron purlins and use a light bar, not more than a one inch square bar as it has little weight to carry. If you build yourself use 1-inch iron pipe for supports and the same for purlins, and as you would not have rafters in this house it would be impossible to have more than one purlin for a 12 foot or even 16 foot bar, so the latter should be of the best cypress and not less than two inches deep without counting check for glass, and one and three-eighths inches wide.

I can speak with some knowledge of three different styles of house, viz., equal span, three-quarter span, long-span-to-the-south, and three quarter span, short-span-to-the-south. My views of the latter style were given at some length in these columns not many weeks ago and I will only repeat that if there is any virtue in this style then the reverse or long-span-to-the-south is all wrong, and who would dare say that in the face of the overwhelming majority of our great rose growers who still swear by the long-span-to-the-south, and don't think it worth while even to build one of the new fads for an experiment. I feel sure an almost ideal house for carnations at least and I think for roses would be as follows: 19 feet wide from outside to outside of post, height from floor of house to ridge pole 11 feet, length of south sash bar 12 feet; length of north sash bar 10 feet 6 inches; height of north wall from ground to highest point of post 4 feet 6 inches, south wall the same but the upper 2 feet of this side should be glass. This latter feature I believe in strongly. This comes nearly being an equal span house, with this difference, the inequality in length of bar would throw the ridge sufficiently to the north to allow the center post, the most important one, to come inside the north bench. In this house you would have two benches, each about 6 feet 6 inches wide, a 2 foot path in the center and a path both back and front against the wall, and no benches up against the walls of the house. I feel certain that for light this house is all you could desire. About 8 feet apart would be sufficient to keep these houses apart. WM. SCOTT.

Forcing Spiræas.

Forcing the spiræas is considered a very plain and simple operation; they seem to respond so readily to a gentle heat, and their flower spikes appear to push up without any special care if only enough moisture is given about their roots. Few of the growers ever give the subject of improving on them any thought. Since some of the newer varieties such as *S. astiloides*, *S. palmata* and others came in use some failures to bloom them at the right time were experienced; the imported clumps in some instances would take their own time before starting into

growth, and no amount of coaxing could induce them to make much headway, and the flower spikes would not be developed at the desired time, although when once fairly under way they grew rapidly and also flowered freely, still it was too late then for them to be used advantageously. It is not generally known that these spiræas will make a quick start if the clumps are placed on a thick bed of moss, laid over the heating pipes and kept saturated with water before potting them up. Two or three inches of the moss should cover the crowns, and they must not be allowed to become dry at any time while they are on the pipes. If the heat is strong and the moss kept at the right moisture ten days will be enough to produce a fine uniform growth of four to six inches, when the plants should be potted up and placed near the light. In less heat or farther away from the boiler they require more time, but are sure to come on just as well as the others, and every crown will start out even and strong.

After the plants have thus once begun to push then it is not difficult to force them ahead in either a warmer or cooler house, according to the time of beginning the operation. Clumps which have been potted some time ago and are slow and backward may be placed pots and all on the pipes, and if the surrounding and covering of moss is kept saturated it will only take a few days to bring them out well above the moss, thus relieving us of much anxiety about their blooming too late for any certain date. It does no harm to have them a week or more ahead of time, for they may be moved to a cool airy house, where the flowers will keep fresh for a long time in perfect shape. The foliage of all spiræas is easily damaged by tobacco smoke, and should be kept away from it. Abundance of water is essential at all times, and they should never be allowed to suffer on that account.

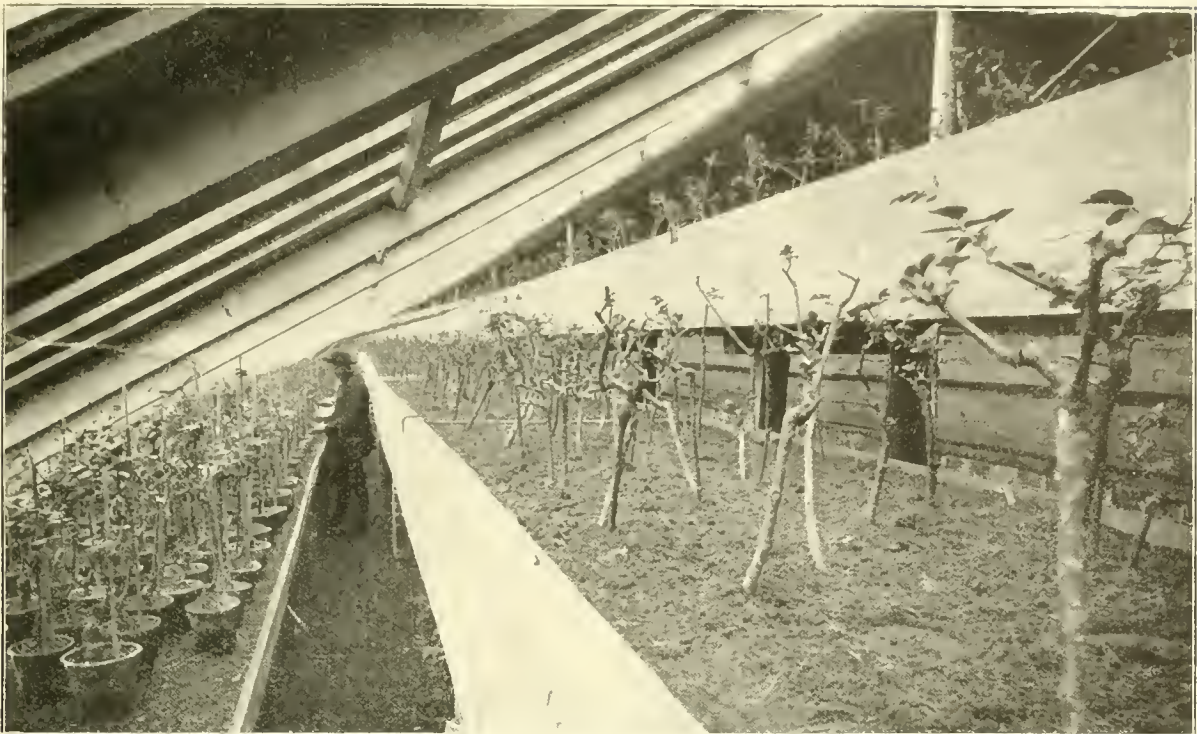
J. B. K.

Size of Plant for a Retail Trade.

Do you think three gable greenhouses, one 12x100 for propagating, one 16x100 and one 20x100, would be sufficient to start up a good general florist trade, and at what cost you think these houses can be built? Also what help you think I would need, if any? How would be the best way to build them and run them? M. L.

The above is referred to me, and is difficult to answer without knowing more of the circumstances. The amount of glass mentioned above, if in the neighborhood of a large city, would be a very small establishment, but in a small town of ten to fifteen thousand people would be quite a plant to begin with. The propagating house would be large enough for twenty-five thousand feet of glass, but could of course be used for small stock, and only a portion occupied with the cutting bed.

Why build one of the larger houses 16 feet wide? Make them both 19 or 20 feet wide, and 11 feet wide is better for the propagating house than 12. If the latter your benches will be a most inconvenient width or your path will be too wide to be profitable. If you are not short of land to build on let all the houses be detached. Let the houses run east and west; that's important, with 6 to 8 feet between each. Equal span is good enough, or I will refer "M. L." to a description of a house which appears in the FLORIST of February 8, which I am sure is a good house, and is



A ROSE FORCING HOUSE IN ST. PETERSBURG.

not quite long span, short span, no equal span.

How to build would be a very long chapter if gone into thoroughly. If you can afford it get the houses built by one of the several good horticultural builders who are experts at the business and perfectly responsible. The worst class of man to trust to build your houses is the general builder of your town or village. He may be able to build a mansion, but he can't build a greenhouse. If you build yourself use only the best cypress lumber for bars, ridge and plates. Use double thick glass with lights not less than 12 inches wide. Red cedar posts will do. If you are in the smoke of a large town lap the glass. If you are away from smoke butt the glass by all means.

The 20-foot houses will cost you, if you manage right, about \$10 per running foot; the 11-foot house about \$7 per foot, all ready to receive the stock. If you are not a good deal of a greenhouse builder yourself you will do better to give the job to a horticultural builder, who will build a better house, iron posts, rafters, purlins and well heated, for an advance of 30% to 40% over the figures I have quoted.

WM. SCOTT.

Forcing Hardy Plants.

I have just received a shipment of lilacs, snowballs, deutzias and *Hydrangea paniculata*, imported stock, with large balls of roots, which have been put into 10-inch pots. What temperature and treatment shall I give them to get them in bloom part by Easter and the rest for Decoration Day? Have stowed them away at present in a cool place well potted and watered.

Montana.

It depends largely if these plants were grown in pots or lifted from the ground. Lilacs as received now from European growers are very easily forced and can be brought into flower in a temperature of

60° at night easily in three weeks. *Deutzia* I would give a month to and less heat. Snowballs, so called, give six weeks and if they need more or less heat it is easy to control them. I have never tried to force *Hydrangea paniculata*, and don't believe it ever should be attempted. It is one of our best fall hardy shrubs, but I am sure (although I speak without experience) that it will not be found a satisfactory Easter plant. The lilac and *deutzia* are all right, but leave the rest alone.

WM. SCOTT.

Decorations at Washington.

The second of the seven social events to take place at the White House occurred January 9, it being a reception by the President and Mrs. Cleveland to the diplomatic corps. The floral effect was perhaps the most elaborate, eclipsing former occasions. Mr. G. H. Brown, who always has charge of the East Room decoration, tries to add to the beauty of each succeeding occasion, and the decorations were probably on a more extensive scale than ever before. Mr. Brown's stock of plants for this class of work was never in finer condition, nor has he ever had so varied an assortment from which to make selections.

The East Room was most attractive. The general effect of the decorations was similar to those last described, with several new features. The two mirror rests at the north and the two at the south end of the room were banked with *adiantum* and *uephrolepis*. Suspended from the top of each mirror frame, falling over the mirror, were five sago leaves arranged in fan shape, the sides of frames being festooned with *smilax*. The two east and two west mirror rests were banked with carnations, azaleas and Roman hyacinths, fringed with bracts of poinsettias, studded with *cocos* and *Perle*, *Bride* and *Siebrecht* roses. The top of mirror was crowned with a banking of *adiantum*, from which fell six garlands of *smilax* studded with pink and

red roses, they being reflected in the mirrors. Under each of the eight mirror rests was a small mound of ornamental foliage plants. The four large white and gold columns, which support the two main girders in the ceiling were twined with *smilax*, with here and there a leaf of *rhapsis*. The three crystal chandeliers were festooned with *smilax*, with a crowning of palm leaves near the ceiling and garlands of *smilax* extending to the four electric moons around each. There was a string of 200 tiny electric lights looped from the four pillars to the four electric moons, and from the moons to the chandeliers, from there to the two large girders, along the girders back to the pillars, the wire holding the lights being concealed by strings of *smilax*, over 500 strings being used in this room.

The Blue Room, which was the receiving room, was decorated in Mr. Pfister's best style. The mantels were banked with *adiantum* and *asparagus*, studded with carnations, Roman hyacinths and *cyripediums*, fringed with bracts of poinsettia. The three windows in the south side of room were banked with palms. In the center window was a fine tall specimen of *Kentia Belmoreana*, and in each of the two side windows was a fine specimen of *Seaforthia elegans*. The tubs containing these center plants were concealed by a mound of ornamental foliage plants, high colored *crotons*, *marantas* and ferns. The mirrors and chandeliers were festooned with *smilax* and *asparagus*, extending from the chandeliers to the corners of the room; a festooning of *asparagus* extended around the room.

Both the Red and Green Rooms were decorated with foliage and blooming plants. The mirrors and chandeliers were festooned with *smilax*. Under the mirror rests was a grouping of high colored *crotons*, *marantas*, *pandanus*, ferns and *echeverias* in flower. The main corridor leading from the East Room to the conservatories was decorated with palms, dracæ-

nas, pandanus, crotons, marantas, curculigos, aspidistras and *Ficus elastica* and ferns arranged in groups, against the stained glass partition and in the niches. The marble tables in this corridor were banked with ferns and flowering plants. The three large chandeliers were festooned with smilax.

The Gridiron Club (which is an organization of Washington correspondents) held its annual dinner at the Arlington Hotel on Saturday night last and as is always the case with this famous club the event eclipses everything in the social universe.

The table was in the shape of a gridiron and covers were laid for one hundred and seventy guests. On either side and back of the president of the club were tall kentias looped together with strings of smilax studded with cattleyas to form a bower. On the floor opposite the president was a half circle banking of ferns about the height of the table, from which sprung dozens of long stemmed American Beauty roses. Immediately in front of the president was a large oval composed of Farleyense, mignonette and Brunner roses. At regular intervals down the six distinct tables (which formed the ribs of the gridiron) were plateaus of Farleyense, Brides, Beauties and Brunners. Between each of these was a cut glass vase filled with roses and carnations, alternating. The ceiling and mirrored walls were festooned with southern smilax. The four corners of the room and windows were banked with palms. Wreaths of roses tied with black and white ribbons, (the colors of the club) rested against the mirrors.

At the diplomatic dinner at the White House January 16 the table was spread in the inner corridor, following the custom inaugurated last year. Covers were laid for sixty-six, thirty persons being seated at either side and three at each end. In the center of the table was placed a plateau twelve feet long by two and one-half feet wide filled with adiantum and asparagus thickly studded with Bridesmaid roses. At each end of the center plateau was a round piece of *Nephrolepis davallioides* furcans about four feet in diameter, studded with the same rose, then came another plateau five feet long filled with adiantum with a fine specimen of variegated pineapple for a center and a smaller one at each corner, with two good specimens of *Nidularium* (karatas) *spectabilis* on either side of the center, the outer edges being studded with Bridesmaid. At the end of these plateaus was another round piece of *nephrolepis* studded with the same rose. The ladies were furnished corsage bouquets and the gentlemen boutonnières of the same flower. The table decorations were entirely pink, 850 Bridesmaid roses being used and about the same number of Scott carnations.

The two mirror rests were banked with Scott carnations, the frames being festooned with asparagus with a string of tiny red, white and blue electric lights run around it. The doorway entering the Blue Room was decorated in the same manner. The three crystal chandeliers were festooned with smilax, with six garlands of asparagus, studded with Scott carnations extending from their tops to corners and sides of room. Over the top of the stained glass partitions were three long loops of small knots of red, white, and blue electric lights with a double festooning of asparagus.

Over the doors at either end of the corridor was a banking of ornamental foliage plants, beneath which were festoonings of asparagus which extended to the sides of the corridor or room as it might be termed. The effect was rich and beautiful and a credit to Mr. Henry Pfister. About 800 yards of asparagus were used in the decoration of this room.

REYNOLDS.

Miscellaneous Seasonable Hints.

There is a large class of small stuff that will be wanted in May with the general florist, and among them are the drooping and spreading plants called vines. Many of them are easily increased, but for all that they are sometimes forgotten. Nasturtiums of the semi-tall type are always raised from seed, it is not well to have them too large. Sow about March 1. When in 2 or 2½ inch pots don't keep them in a moist shady house or they will soon be useless; rather starve them on a shelf and they will flower sooner and much better stand the sun and wind when put into a vase or veranda box. German ivy so-called (*senecio*) is such a weed to grow that little need be said about it, only have stock enough to be able to put in a big batch of cuttings early in April, for these are the plants that will make the useful size and will make a show when used end of May. If you lifted some plants of lobelia in the fall and cut them back as you should have done you will have plenty of cuttings, and those put in now and much later will make plants very attractive with their profusion of blue flowers. The lobelia is not a laster, but it is very attractive as a starter. *Erinus speciosa* and *gracilis* and improved strains of those varieties are the best lobelias for veranda boxes, and if there is any place where a hanging shelf is to be commended it is for lobelias and such like plants, which must have attained some size or they are useless for the purpose for which they are wanted. White is also a color that is generally deficient in this sort of work, and the double sweet alyssum is indispensable. It is by no means a plant that quickly goes out of flower. It can only be raised by cuttings, and early in March a large lot should be propagated. By the middle of April they should go into 3-inch pots and be put in a mild hotbed, where they will make large plants. Remember that where you fill veranda boxes by the foot and vases for so much each it is cheaper for you to have good sized plants, so many less are needed, and it will be to your customer a much more satisfactory job. *Lophospermum* can be raised from seed sown early (now) and will make good plants, but cuttings are better and can be put in now or the next six weeks.

WM. SCOTT.

Germinating Cocoanut.

I have had a cocoanut with outside husk on sent me to grow. Will it germinate in an ordinary greenhouse? If so, how long will it be before commencing to grow? Should the outer husk be broken before planting?

SUBSCRIBER.

Canada.

The cocoanut (*Cocos nucifera*) is not one of the easiest palms to grow under artificial conditions, but the seed can be germinated in an ordinary greenhouse providing it is kept warm enough. It is not necessary to remove the outer husk or covering before planting the nut, as the young shoot will readily penetrate the husk when growth begins. The nut should be laid on its side in a pot or pan ten to twelve inches in diameter, and should not be completely buried in the

soil, about two-thirds under ground being enough.

A light well drained soil is preferable for this purpose, and the pot containing the seed should be plunged in bottom heat of 75° to 80°, this palm being decidedly a heat loving species and attaining its fullest development in localities having a minimum temperature of 70°. The time required for germination is rather uncertain, but is not likely to be less than three months, and may be considerably longer.

W. H. TAPLIN.

New York.

Those who went to the February meeting of the Florists' Club expecting some fun were not disappointed. Not for a long time, if ever, have the oratorical abilities of the members or the parliamentary skill of the chairman been so fully demonstrated as on this occasion. The recent organization of the private gardeners and the question as to the club's duties towards this very useful branch of the profession, and its possible remissness in the past was the "bone of contention," the subject having been put in debatable shape by the motion made by Mr. O'Mara at the previous meeting to change the title of the New York Florists' Club to that of the New York Florists' and Gardeners' Association. After an animated discussion a vote was taken and the "noes had it," so the title of the club remains as before. Mr. McCrowe, superintendent of the Paterson parks, addressed the meeting on behalf of the private gardeners asking that in future exhibition schedules special provision be made for such exhibits as would come within their scope, and predicted that in this way might be developed a taste for flowers and plants other than the limited variety now grown for commercial purposes and people of wealth attracted to the shows as never before.

Mr. J. I. Donlan came next with a plea for some action to interest the retail florists more in the club's welfare and presented a motion providing that silver medals be offered at the regular meetings for artistic and original floral designs. Several speakers were rather skeptical as to the possibility of interesting the retail people by such means, and pointed to the fruitless efforts in this direction in the past, but there was a disposition to give the proposition a trial and it was so ordered, the first competition to take place at the March meeting and the award to go to the individual making the design. Mr. Donlan's next proposition was that the entertainment committee arrange for a joint debate between the Gardeners' Society and the Florists' Club at an early date. There proved to be a whole evening's fun in the mere debate on the proposition, and as the idea was finally adopted it goes without saying that when the affair does come off it will prove a prime attraction.

The president appointed the following committees: On essays and entertainment, Messrs. P. O'Mara, W. F. Sheridan and S. C. Nash. On awards, Eugene Dailedouze, Peter McDonald, Robert Angus and Ernst Asmus. The secretary announced that it would be required of all guests intending to be present at the dinner on the evening of February 20 that they register at the Carnation Society meeting on that day. The dinner will be at the Broadway Central Hotel at 7 p. m. On the exhibition table was a vase of handsome seedling carnations from Mr. C. W. Ward.

The usual activity of the period immu-



A FLORIST'S STORE IN ST. PETERSBURG.



A WINTER-GARDEN IN ST. PETERSBURG.

diately preceding the coming in of Lent is now on and all branches of the cut flower trade are busy. Dark weather has reduced the production somewhat and also had an unfavorable effect on the quality of stock coming in. Really first-class bloom sells well and demand for such is steady at fair prices, but the net results from the poorer grades are exceedingly small. All kinds of bulbous stock remains inactive regardless of quality.

Tulips are the dearest commodity seen in this market the present season.

Jos. E. Rolker has returned from a three months' trip to Germany, Holland, Belgium and France. Indulgence in all these foreign tongues has not affected his well recognized command of the English language, and if the new importations of novelties in florists' supplies do not sell rapidly it will not be Joe's fault.

Mr. W. S. Allen has been installed as

manager and H. E. Baylis assistant manager in the New York Cut Flower Co.

James Hart will add six hundred running feet of rose houses to his Madison establishment.

Plantsmen say that ficuses are scarcer in this market than for several years past.

Visiting New York, G. W. Wilson, Malden, Mass.

The Broadway Central Hotel, where the carnation barquet will take place, has agreed to give "commercial rates" to all parties attending the carnation meeting. Guests will be accommodated on the European or American plan as desired. The location is central and equipment first-class and it is expected that a large proportion of the visitors will be quartered there.

Boston.

The usual interesting little display of flowers was staged at Horticultural Hall on February 8. James Comley showed a table of camellias, also a dish of very tempting forced rhubarb. From the Bussey Institute came a beautiful collection of forced hardy shrubs such as pyruses, spiræas and andromedas and some fine anemone flowers. E. Sheppard showed dendrobiums and cinerarias and Oakes Ames a promiscuous display of greenhouse bloom. A good plant of *Dendrobium glumaceum* came from Harvard Botanic Garden.

Just now the city stores are quite busy, trade in all lines being fairly good. Funeral work has been in great demand and judging from what one sees in the various stores daily, designs are not out of fashion yet by any means. Dark and rainy weather has prevailed during the week, shortening up the crop of flowers to a considerable extent and ensuring a fair price for stock coming in. Roses and carnations suffer somewhat in quality, but with a small supply to select from customers are less particular and all is sold at average figures. Daffodils show a marked improvement in quality. Dutch hyacinths are seen in considerable quantity.

The material being excavated in the constriction of the subway is being used to raise the grade of the common in the low portions. Over considerable of the space the grade will be raised four feet or more. The large elms and maples numbering fifty or sixty trees are being raised to the new level, an undertaking of considerable magnitude but well worth all it will cost.

Mr. Walter Deane of Cambridge has been engaged for the past twenty years in collecting, preserving and classifying all the wild flowers, trees and shrubs named in Grey's Manual. This superb herbarium now numbers nearly twenty-five thousand specimens, comprising over four thousand species and varieties of plants.

The garden committee of the Mass. Horticultural Society with other invited guests visited the establishment of Wm. Nicholson on Thursday, February 13, where they were hospitably entertained and spent a most delightful time inspecting the carnations for which the place is famous.

Secretary Dawson of the Gardeners' and Florists' Club is in receipt of a cordial invitation from Secretary Young of the New York Florists' Club for the members of the Boston club to attend the dinner which is to be given in New York on the evening of February 20, in honor of the American Carnation Society.

Thos. F. Galvin has been ill for several days and narrowly escaped pneumonia. He is now convalescent.

Visitors in town: John Barclay representing John Gardiner & Co., Philadelphia, J. E. Killen representing C. H. Joosten, New York and Winfried Rolker.

Pittsburg.

Once more through the courtesy of Mr. W. C. Beckert and Mr. Frischkorn the Florists' Club held its regular meeting on Tuesday night, 11th inst., in their place of business, 19 Federal street, Allegheny City, and I am glad to state with a very good attendance. The committee on securing a hall for permanent place of meeting reported that they have an offer of a very good large room in the McKnight building, corner of Federal and Lacock streets, about three squares from the river, but renting it would necessitate the changing of our night of meeting. After a full discussion the committee was instructed to secure the room for the second and fourth Thursdays of each month, to which we have changed our regular meetings. It was also decided to conclude one of our meetings each month with a social, including refreshments, under the management of a committee of three. The first one will be on Thursday, 27th inst., which will also partake of the nature of a house warming in our new quarters. It is earnestly hoped that the members will turn out in force now that we will have a first-class place to meet in. Any visiting florists or those connected with the trade are cordially invited to attend our meetings; they will find a hearty welcome, and we ask them to remember that the "latch string is always out." Two applications for membership were placed on file to be voted on at next meeting.

The committee appointed at the previous meeting to report resolutions expressive of the club's sentiments on the death of our late president reported the following, which were unanimously adopted and the committee instructed to have them suitably engrossed and framed:

WHEREAS, It has pleased an All-Wise Providence to remove suddenly from us by the hand of death our esteemed and valued fellow member and president, Augustus White Bennett; therefore be it

Resolved, That the Pittsburg and Allegheny Florists' and Gardeners' Club has lost an earnest and able member, the community a faithful, energetic citizen; and his family a kind, loving husband and father; one who at all times labored earnestly and faithfully to promote the best interests of this association and those of floriculture. To his judgment we had all learned to defer as being at all times correct. In the brief period of his association with us he had so won our confidence and respect and so thoroughly became one in sympathy with us that it seemed as though we had known him a lifetime.

Resolved, That the beauty and attractiveness of the different parks of the city are the result of his skill and untiring energy. In the brief period of two years, under his skillful management, the wonderful transformation has taken place. The attractiveness of Schenley Park and Phipps' conservatories is an enduring monument of his ability, knowledge and broad mindedness.

Resolved, That we tender to his bereaved family our sincere sympathy, commending them in their great sorrow to Him who has promised to be a "husband to the widow and a father to the fatherless."

Resolved, That these resolutions be adopted as the sentiment of the Pittsburg and Allegheny Florists' and Gardeners' Club, to be engrossed on the records, and a copy presented to the family of A. W. Bennett.

SAMUEL McCLEMENTS, } Com.
A. FILSON DALZELL, }
GEO. W. BURKE, }

Nothing of special importance in the trade to report this week, although the general trade is looking up a little. Stocks are plenty, especially freesias, lily of the valley, bulbous stock generally, and carnations, and all of very good quality. Tulips are coming in in better quantity and quality too.

Mrs. Bennett, widow of the late A. W. Bennett, has another son added to her

family; he is nearly a week old, and both mother and child are progressing finely.

Mr. Arthur T. Boddington, with Pitcher & Manda, and G. L. Spear, representing John C. Meyer & Co., Boston, were with us this week.

The constant rain for several consecutive days has a very depressing effect on the general trade of the florists, and if it were not for the large number of social affairs arranged for this week and next they would all be experiencing a severe attack of depression of spirit, but as it is are comparatively well satisfied. The chief event of a public character was the fourth annual performance given on Friday afternoon for the benefit of the West Penn Hospital, one of our foremost and most deserving institutions, at the Alvin Theater, the patronesses comprising some of the most charitable and fashionable ladies in the two cities. The address on behalf of the Hospital management was delivered by Judge Joseph Buffington of the U. S. District Court, while the entertainment itself consisted of acts contributed by the different companies playing at five of the leading theaters this week, all however, volunteering their services. The florists reaped a good harvest from it, judging from the amount of flowers in evidence in the auditorium, the large number of theater parties in attendance, all of which were preceded by luncheon or followed by suppers, house entertainments and dances (necessitating more flowers) in the evening. The performers were rewarded by a profusion of gifts of baskets of flowers, bouquets, etc., Mr. Gustave Ludwig alone had orders for nearly forty baskets for this purpose.

Randolph & McClements report trade pretty good in the East End; they have made some improvements in their palm houses, dropping the benches some and re-arranging the street end of them. Their stock now shows to better advantage and is doing better. They have a large demand for growing ferns for fern baskets, so much so that it is with difficulty they have been able to fill their orders, as ferns such as they require are scarce and hard to get, east or west.

Mr. J. L. Wyland, who was eminently successful with chrysanthemums the past season, is cutting roses of a very fine quality now. I saw Bridesmaid roses that were the equal of any shown lately; his other stock is also quite up to the mark.

Mr. N. Patterson has been confined to the house with a slight attack of grippe, but is now able to be at his store on good days.

Elliott & Ulam are getting a share of the good things that are around, they have had some nice orders from the immediate vicinity, and they had the pleasure of sending the bride's bouquet, a large one of lily of the valley, to Washington for the daughter of the Hon. M. S. Quay.

REGIA.

Toronto.

The meteorological report for this district for the past month has some items interesting to florists. The mean amount of cloud was 82, which is 8 above the average. There were only 44.8 hours of sunshine out of a possible 285.7, and 21 days were completely clouded. No wonder roses are scarce.

Mr. H. Dale of Brampton reports that trade has been good during the past week, everything selling at fair prices. Roses, especially Brides, were short of the demand, while the call for carnations, Romans, valley, daffodils, etc. is about

equal to the supply. Speaking of violets Mr. Dale says that the California is "all right, large flowers, long stems, sweet and productive, a bunch of 100 or 200 makes quite a show compared with the same number of doubles and they sell."

A call on Mr. R. Jennings, also of Brampton, found his place in good shape; he has nine houses of roses, carnations, violets and mixed plants. A house of Marie Louise violets is in grand condition. A bench of Bridesmaid was very fine, but another of Bride and Mermet carried over from last year were not so good and had not come up to expectations. Carnations Scott, Daybreak, Wave, McGowan looked very well.

I see by your Pittsburg notes that Mr. Joe Spring has been at his old tricks with Phalaenopsis Schilleriana again. When in Toronto five or six years ago he grew a specimen of that orchid with I believe it was 164 blooms, the largest number ever heard or read of. I have no doubt he will do as much with his present specimen.

Grainger Bros. of Deer Park are building a new brick store with plate glass front in connection with their greenhouses. They are also erecting three new greenhouses, which will add nearly 4,000 feet of glass to that which they already have.

The annual dinner of the Gardeners' and Florists' Association was a grand success, without doubt the most successful thing of the kind the Association has ever had in the course of its checkered existence, not a hitch occurred and not an ill word was spoken to mar the perfect harmony, good will or enjoyment. The dinner was good and well served, the speeches were most entertaining and the singing suited everybody, sentimental, patriotic and comic, the way those choruses were sung was enough to crack the plaster on the ceiling. Dunlop's quartette sung very sweetly. The decorations, which were bossed by Mr. C. Tidy, also deserve special mention. There were two long parallel tables with a four foot space between rounded off into one at the ends. The space was filled with palms, ferns, flowering plants, etc., not high enough to prevent seeing across from one side to the other, the effect of this was quite novel and very fine, the tables themselves were dotted with large vases of carnations, roses, daffodils, etc., with two magnificent vases of cattleya at the head, one of them being a large white form of Trianae. Extra side tables had to be put in to accommodate all the guests—there were 105 of them—and these were also decorated with vases of flowers. Most of the aldermen composing the city parks and gardens committee were guests and they must have become aware during the evening that the Toronto Gardeners Association was no "small potatoes" and was worth cultivating.

Dunlop reports design trade very good all last week, but much hampered by scarcity of white material. There is still a deal of dull weather and the supply of roses is short. Bulbous stuff however is very good and plentiful so that the "aching void" is filled somehow. E.

Cleveland.

Business during the past week has been good with nearly all the florists, although there has not been anything out of the ordinary to develop a demand for flowers. Stock has come in with reasonable regularity, and with the steady, even demand has prevented any noticeable alteration in prices. In all the windows Dutch bulbs



HOUSE OF DELLA FOX CARNATIONS AT THE ORIGINATORS' MESSRS MYERS & SAMTMAN, WYNDMOOR, CHESTNUT HILL, PHILADELPHIA.

are prominent, and are of good quality. There does not, however, seem to be the profusion of that class of stock that has characterized other years at this season. It begins to appear as though florists had at least learned the lesson that should have been taken to heart several years ago. I mean the proper relation and proportion that bulb stock should bear to regular greenhouse stock. Dutch bulbs have their place. We could not get along without them. But they should not be grown in such quantity as to render the sale of them at a fair price an impossibility. Grown to that extent they constitute not only a source of direct loss to the florist, but they have a very disastrous effect upon the prices obtainable for cut flower stock of other kinds. It is not meant that the situation is particularly satisfactory from that point of view even now, but there are some signs of a disposition to relegate bulbs to their proper place.

The regular meeting of the club was held on the evening of February 11. It did not develop an attendance by any means equal to that the smoker brought out, although business of very great importance was brought up for final action. Among other matters the entertainment of the national executive committee was discussed. It has been referred to a committee to act upon and whatever in their judgment appears advisable will be satisfactory to the club. Whatever form the matter may take there will be a pleasant time for everybody. It should also be remembered that the executive committee convenes here on February 25, which is also the occasion of the next club meeting. It is probable the local florists will upon that evening have an opportunity to meet the national officials, so that a large attendance is looked for.

W. H. Beaumont, the "floral king," who has been doing business on Euclid avenue ever since Noah abandoned maritime pursuits, has moved to Erie street, where he now receives visitors to his court. That makes five within a stone's throw of each other, and leaves Eadie and Gasser alone in their majesty on Euclid avenue. Who will next forsake that classic avenue?

A.

Chicago.

This week has seen a scarcity of stock really unparalleled at this season. Roses are phenomenally scarce, and Christmas prices prevail. Brides and Bridesmaids are the scarcest and most in demand, and cases were noted where 12 cents was offered for the former. In one instance on Friday morning a wholesaler trying to supply an imperative order was said to have borrowed 20 Brides from a retailer, after giving bonds to replace them during the day. Meteors were also very lofty in price, and even Perles were beginning to put on airs. This unusual shortage is rather hard to account for; the plants are in good condition and every grower promises a fine crop in the future, but just now, when the demand is briskest, stock is non-existent. Local retailers go from place to place searching for stock to fill their needs, and shipping orders are only partly filled.

Carnations are not overplentiful and some days they are quite short. The wholesale men are long on one line, however, and that is bulb stock, and in spite of the scarcity in other lines it does not seem to move any better. It was suggested, in light of the scarcity of roses, that some of the wholesale men might refuse to let a man have roses unless he would take some bulb stock with them

just for luck. Daffodils are more plentiful, and sell very poorly, and Dutch hyacinths are crowding in. Violets vary—some days they are short and the next day they are plentiful.

Walter Kreitling now openly admits that he has wheels—but not in his head. Flowers and Gladiator bicycles—beauty, strength and speed—is the combination Walter is playing now at his Wabash avenue store.

A. L. Vaughan has been seriously ill for the last four weeks.

Louis Dreber, formerly foreman for Poehlmann Bros. of Morton Grove, has succeeded Henry Diers of Sibley, Ill. Mr. Dreber intends to grow cut flowers for market.

L. M. Jordone has discontinued his store on Washington street.

Walter Renssion of Sioux City, Iowa, was a visitor this week.

Buffalo.

As Lent approaches the balls and parties are coming a little faster. The charity ball takes place Monday of this week, and brings together all elements of our citizens, but brings few shekels to the poor florist's pocket, as everything is done for sweet charity's sake. Flowers of good quality have not been so plentiful of late as they were three weeks ago. Roses, carnation and violets are cleaned up at the end of a day's business. Daniel B. Long corroborates this. There has been a fair demand for tulips and daffies. The price is about half what it was six years ago, which makes a great difference in the receipts; still if they sell well there is a good margin left for the grower, for the price of the bulbs is greatly reduced. As in other cities pink is the favorite color in tulips here.

Milley Bros. of William street have sold their retail store business to Mr. Charles Hewson of the Abbott Road, who was exclusively a grower. Mr. Hewson has every attribute to make a success of a store business, good looking and young, but not young enough to be giddy, of exemplary habits and business integrity away above par, with avoirdupois sufficient to give him a solid appearance. He is bound to make a success of the business in that thickly populated district. Milley Bros. will devote their energies to growing for the wholesale trade and the market, at which they always excelled.

I forgot to mention that we had a call a few weeks ago from Mr. G. Leadly of Detroit and Mr. J. Carey of Mt. Clemens. They were on their road east on a tour of inspection. We hope they arrived home in the Wolverine state physically refreshed and mentally enlarged.

An unexpected call came on Friday last in the shape of Allie Salter and Charles Vick of Rochester, same old boys. They called round to see the craft generally, but bowling was on their brain. We urged them to get a team and be represented in Cleveland. They said they would be far more likely to be dangerous as shooters; hope they may.

We have had two day's heavy fall of snow; it is now two feet on the level and six feet where the trolley car has shoved it up against your door.

Visitors in in town: Martin Reukauf, representing H. Bayersdorfer; R. Salter and C. Vick, Rochester. W. S.

St. Louis.

This week trade was good with some florists, while others claim it was dull, still flowers are very scarce; for three weeks past really first-class stock has been short, commission men report large shipping orders but can't fill orders for home trade. Prices are at top notch. Last week Brides could be bought for \$6, this week they went up to \$10, the same can be said for Bridesmaids and Meteors. Perles are selling for \$5, Beauties keep very scarce, the price is from \$12.50 to \$50 for good stock. Carnations that come in are good but not plenty just now, prices ranging from \$1.50 to \$2. Some extra fine bring \$3. Daybreak and Scott have the call. Bulb stock was better this week, scarcity in roses made them sell better. Romans sell at \$1 to \$3. Daffodils have been a glut and sold as low as \$2. Tulips, yellow and red, are going slow. Harrisii sell at \$12.50 and callas go for \$10 to \$15. Orchids have now become standard stock in this market; most of them comes from Mr. Brown's place at Brownhurst.

The meeting of the Florist Club this week, Thursday, was a carnation meeting, and lots of new carnations were expected to be shown by local as well as outside florist.

Alex Waldbart leaves this week for Cleveland to attend the meeting of the executive committee of the S. A. F.

The son of Wm. Pape, Supt. of Public Parks, died last Sunday. Mr. Pape has the sympathy of all the florists.

Ayers Floral Co. and George Waldbart have been very busy of late with funeral orders.

F. J. Fillmore is cutting the best roses that come to this market; his Woottons are exceptionally fine. They are of a high color, fine foliage and very large buds; could be sold at a pinch for Beauties.

E. W. Guy and Dr. Halstead both of Belleville, Ills., are sending some fine stock to this market.

Simon Skidelsky of M. Rice & Co., Philadelphia, and Burt Van Simons of Crosman Bros., Rochester, N. Y., were recent visitors.

Fred Weber made a very handsome decoration Tuesday night at the Germania Theatre.

At the Bowling Club Monday night four games were rolled. The new style of game was rolled, the two high men choose up sides after every game, the losing side pays 10 cents per man, the winning side 5 cents per man and the club 5 cents; this seems to be satisfactory to the members and great excitement prevails, as every man wants to be on the winning side. The first game Weber and Beneke were captains, Beneke's side winning by 39 pins. The second game Sanders and Schray were captains and Schray's team won by 94 pins. The third game Weber and Beneke were again captains, but this time Weber's team won by 73 pins. The fourth and last game Kuehn and Schray were captains, Kuehn's side won by 117 pins. The best roller in the four games was Fred Weber, he rolling 788 pins and also made the highest single score of the night, 261. Emil Schray was second with 781 pins and single score 240, J. J. Beneke was third with 759 pins and a single score of 235. Mr. Simon Skidelsky was a visitor to the alleys, and made some good scores. J. J. B.

San Francisco.

Trade the past week has been very good indeed, the demand, on account of several very big weddings, being very large and immense quantities of stuff being used. This is particularly true of violets, which have formed the chief article in demand, hundreds of bunches of Marie Louise and Czar being used. There was also quite a large quantity of Swanley White sold. The Californias, however, can be sold over any other sort. We notice quite a lot of talk over this violet in the trade papers, chiefly that it is of no value. It is very probable that this violet will not force, but as we have it growing here in California in the open ground all winter it produces large quantities of immense flowers on long stems, and here in San Francisco is undoubtedly "the" violet.

Roses have taken quite a jump and are also in big demand. Testouts bring \$1 to \$1.50 per dozen. Brides, Mermets and Maids bring 50 cents. Beauties of good quality are very hard to find. Portia carnation is in good demand and brings 25 cents per dozen. Scotts bring 35, also Daybreak. Harrisii go very well at \$2.50 per dozen, but all other bulbous stock moves very slowly.

Mrs. H. H. Berger has decided to add carnations to her list of specialties and is contemplating the erection of several houses. She has had a new boiler put in lately which is giving satisfaction.

Mr. James Johnston, who has been in the horticultural department of the University of California for some time, has resigned his position to take one in Holy Cross Cemetery.

At last the quarantine on the bulbs in the bay has been removed and the various shipments have been landed. It is so late in the season that the importers have put the prices away down this year to dispose of them.

The continuance of good weather has given quite an impetus to the seed growers, who are now going ahead with their plantings. The onions which were flooded a few weeks ago are all dried up and growing nicely with but few exceptions.

Mr. David Meldrum, who has been gardener at the State Capitol for two years,

has started in the nursery business in Santa Rosa. He will make a specialty of cut flowers and ornamental trees.

There is one question which has been agitating the wholesale and retail trade for several years past, and with which they seem to be unable to cope. That is the competition from Chinese growers. This originated several years back, and every year sees a larger number of them still coming into the trade. For instance, a wealthy resident will give say 5 or 10 acres of land on his place to a company of Chinese, who in turn agree to take care of his lawn and avenues. He furnishes them with water and every necessity that they wish. The consequence is that they flood the market with nearly every flower but roses and inside stuff, running the prices down to such a low figure that it is very nearly impossible to compete with them. Last year the wholesale and retail men organized what was called the Florists' and Growers' Protective Association, the main object of the society being to crush the Chinese. Everything went along smoothly for a while, when everything burst up in a fizzle and the society very soon went out of existence. While they were organized some very good work was done, but the society was of such short duration that nothing was accomplished. This is a subject to which several of the trade are now turning their attention, and it is to be hoped that something effective will be done this time to remedy this great evil.

Large dinner decorations are few and far between this season. Shipping trade is rather slow just at present, owing to the bad spell of weather that we have been having for several weeks, but all expect it to open up as soon as the weather gets settled.

Domenic & Ravellia, who have conducted the store on Kearney street, have dissolved partnership, Mr. Ravellia retiring altogether, which resulted in the closing of the store. The Sutter street store will not be affected in any way, however.

J. Quentin, the florist on Valencia street who has conducted that store for years, is in financial difficulty. It is to be hoped that satisfactory arrangements will be made with his creditors so as to allow a continuance of the business.

The hyacinth exhibition of the California State Floral Society will take place in Maple Hall of the Palace Hotel this month. Several valuable prizes will be offered to amateurs.

Mr. Frank Pelicano went to Menlo Park last Sunday and enjoyed a fine day's sport with his gun. Frank is an excellent shot and very few birds escape his aim.

The well known seed growers, C. C. Morse & Co. of Santa Clara, incorporated their business on January 6. The principal places of business are to be Santa Clara and Gilroy. Their object is to extend and carry on the buying, selling and growing of garden seeds. The capital stock is to be placed at \$200,000, divided into 2,000 shares, all of which is fully described. The following are directors: C. C. Morse, Lester L. Morse, B. W. Morse, M. J. Morse and Eva H. Morse.

Mr. S. Parker has succeeded Wm. Nesbitt as foreman of E. W. Parsons' place at San Jose. METEOR.

Greenhouse Building.

North Leominster, Mass., M. D. Haws, one commercial house 150 feet long.

Chester, Pa., W. S. Wilson, one conservatory.

Philadelphia.

Business has been brisk the past week, and all kinds of stock have moved lively. While there has not been a great scarcity of good roses the quantities sent in each morning have not been sufficient to supply the regular orders, and what should come in the next day are sent in for the afternoon trade. The man that raised the *Mermet* should have a monument erected to his memory, for without the *Brides* and *Bridesmaids* of to-day what would the poor florist do? They are the great sellers. Prices remain much the same as last week, while the quantity seems to bother the storekeeper more than the quality. The best teas bring \$10. *Perles* and other small kinds 5 to 6. Beauties are \$5 per dozen for the best, with fair medium stock stems 12 to 18 inches selling from 2 to 4. There are very few hybrids about, none of the growers having any quantity in at present. \$5 per dozen is asked for the best *Brunners*, and 3 for the *Laings*, mostly from *Burton*. Carnations are selling freely, *Scotts* leading; if it only had a little stiffer stem; \$1.50 to \$2 is the price. Daybreak seems to be losing in popularity. *Della Fox* as grown by *Myers & Samtman* is certainly a fine carnation; the flowers are uniformly large, and always have a long stiff stem. *Lonsdale* is sending in a few fine *Jubilee* and *Maud Dean*, and his benches of seedling flowers contain evidences of blooded stock that seems equal if not superior to some of the blue ribbon varieties seen at the show. Violets are more plentiful and sell readily at \$1 per hundred for good stock. *Supiot* is still on top with his new *Luxonne* violets; he has several varieties and it puzzles him to say which is best. The day of the little *Schoenbrun* violet is about closing. The larger varieties will certainly drive it out. Valley is plentiful, but there is not much of it up to the first grade; it takes more than good pips and water to grow first-class valley; a little brains must also be added to the combination.

John Burton is planting a house of Beauties and Belles in solid beds; these are for fall and early winter cutting. Long stems are wanted with good Beauties at all times, and it is to supply this demand at a time when it is not advisable to cut long stems with roses grown by the bench system that *Mr. Burton* is trying this plan.

Mr. Lonsdale comes to the front as an inventor and has even gone so far as to apply for a patent. His idea consists of an iron pan six inches wide, fifteen long and three deep, beneath which is a chamber the length and width of the pan, a quartered hole for inch or inch and a threaded steam pipe admits to this lower portion at both ends. By connecting these iron evaporating pans—for this is what they are—with a line of steam pipe and filling the upper portion with a strong decoction of tobacco it is evaporated and the fumes distributed in such a manner as to kill greenfly without injuring the color of the flower as is the case with the old method of smoking. *Mr. Lonsdale* has used it but a short time and finds it to be very effective, he hopes to be able to distribute sulphur in much the same way so as to carry off the greater pest, red spider. The advantage of his form of evaporator over the one having a pipe pass through the trough is that by filling the chamber with steam at the bottom the evaporation is much more rapid and effective. His pans are attached to a separate line of pipe and connected with the regular heating service.

A bench of *Jubilee* carnation seen here are very fine, the bench of *Scotts* adjoining are no better in the matter of number of blooms and buds and *Mr. Lonsdale* gave it as his opinion that it will be equally as free a bloomer as this popular kind. At last the much looked for better and larger red than *Portia* is here. *Maud Dean* is also very fine with him; he says there is nothing to surpass it in beauty of form, fragrance, and good stem to say nothing of its lovely color. K.

New Orleans, La.

M. Jules Fonta, for thirty-five years one of the leading members of the craft in the Crescent City and the new superintendent of Audubon Park, recently returned from a two years' visit to his native soil, France, one of the first things that impressed him was the great strides made in decorative art as applied to plants, larger numbers of flowering and foliage plants being used than hitherto, and better prices obtained in Paris and other principal cities than here. At the Hotel du Louvre at Paris one passes through an avenue of more than 100 noble specimens of *Dicksonia antarctica*, these are flanked by big palms, some, as *Chamaerops excelsa* for instance, being 25 feet tall. These are imported from Algiers. He was surprised to meet, among members of the profession, many readers of the AM. FLORIST. The chrysanthemum reports with illustrations at that season were especially interesting. During his sojourn in Toulouse he gave a small chrysanthemum and carnation exhibition, commencing by purchasing from *Vilmorin* 200 seeds of carnations, from which (to the credit of the seedsman be it recorded) he succeeded in raising 200 plants. The year following these gave very fine flowers, while in chrysanthemums some measured eight inches across and were of perfect form and of beautiful colors. They created quite a stir. He attributes the good results to the fine climate prevailing in that section. In Versailles orchids are grown largely, Messrs. Truffaut, Duval and Thibaut each possessing splendid collections, but although the plants appeared healthy they had not that vigorous appearance noticeable in the plants grown in the vicinity of London.

He was much impressed with the interest taken by those on the other side in their brethren here and believes that travel is largely responsible for the rapid advances made in the demand for plants here. Especially noticeable is this in New Orleans, where only a few years since little but grass and a few plants existed; now some of the choicest and handsomest specimens adorn the lawns. M.

St. Paul, Minn.

January has been a busy month. Everything in cut flowers sold well, roses, carnations and violets taking the lead. The demand in these has been a little ahead of the supply and more flowers could have been sold had they been obtainable. Retail prices have been very good. Roses ranging from \$1.50 to \$2 per dozen. Carnations 50 to 75 cents. Bulbous stock has sold fairly well. *Harrisii* especially have been in demand, retailing at 25 cents each. Some nice *Von Sion* are now in the market but do not sell readily. In fact yellow has lost its charms and pink is the fashionable color.

Dutch hyacinths of an inferior quality are seen in limited quantities and sell fairly well. Primroses meet with a ready

sale, while cyclamens are poor sellers. One noticeable seller is the azalea, and good plants retail readily at sight.

The dark cloudy weather has interfered greatly with the quantity and quality of the cut. Notwithstanding the dark weather Meteors have been exceptionally fine and every one seems to have had good success with them.

In Minneapolis the brethren are still handicapped and undersold by department stores, still in spite of this trade has not lagged.

J. S. Gray has closed his greenhouses for the winter. *R. Wessling* is erecting three new houses, while *Jacob Hartman*, his former partner, contemplates building in the spring. This would indicate that trade is not entirely dead in our sister city.

Mendenhall's place is looking usually well. His roses are partly off crop, but everything has a thrifty appearance and his violets would be hard to beat anywhere. He also has a bench devoted to pansies that would be hard to beat, some of the blooms measuring $3\frac{1}{4}$ inches in diameter. An unusually fine strain of cineraria just coming into bloom was noticed.

At *Fred Busch's* vegetable farm we found everything looking well. His large house, 300x60 feet in dimension, a description of which was noted last summer, is filled with tomatoes of the *Lorillard* variety. The plants are from 8 to 10 feet in height, well covered with fruit in all stages of maturity. He has been picking from this house since November and will have a continuous crop until next July.

In his other houses are lettuce and radishes, while later on rhubarb, cucumbers, etc. will be in readiness. He is also growing mushrooms quite largely. His experiment with one bed was very interesting. The spawn was planted in September followed by intensely warm weather when the temperature of the soil ran up to 120° and of the air to 110°. This he supposed completely killed the spawn, but a few weeks since when he went to respace the bed he discovered signs of life, and now has a fine crop of mushrooms to harvest. This would indicate that intense heat is not injurious to the spawn, as it only seemed to check and not to kill it.

He finds the worst enemies of vegetables growing to be club root, insects, mice, blight and mildew, and each one receives its proper remedy at his hands.

Mr. Frank Berry of Stillwater was a recent caller and reports business good. FELIX.

Rochester, N. Y.

This week nobody complains of trade being dull, and prices have advanced somewhat over last week's in all directions. Roses and carnations especially are much in demand, and are not overplentiful in supply. The same may be said of violets, valley and *Von Sions*, while tulips, hyacinths, etc., are plenty but move readily. Nearly all the storemen have had some rather busy days, furnishing decorations for balls, receptions and dinners. *Salter Bros.* had several of them lately, which called for large quantities of cut flowers. *Kellers* also furnished plant and floral decorations the past week on two or three occasions, though the orders in the latter cases called principally for plants and greenery instead of large quantities of cut flowers. Orders for funeral work also were more numerous; a goodly number of

the larger and more elaborate designs was the rule and white flowers of every description were used up. Noticable was the demand for white carnations, all available stock of these disappeared soon after coming in. In our vicinity the carnations with few exceptions have not done as well this season as usual; whatever is the reason, perhaps the past unfavorable dry summer has something to do with it.

Mr. Geo. Savage is now recovering from his severe illness, and although he looks thin and pale yet, will in the near future be able to attend to his duties again. His orchid houses at present look gay with bloom, his dendrobiums are especially noteworthy, the canes of *D. nobile* being set with flowers over half their length, and most of the varieties are of very remarkable colors. *D. n. nobiliss* leads them all in richness of color, closely followed by *D. n. Sanderianum* and *D. n. cœrulescens*, all shades are represented down to a pure white variety. *D. Phalaenopsis Schœderianum* is still represented in great quantities and extra large spikes, the large specimens of *D. Wardianum* are also beginning to flower, and in a few weeks will be at their best. A large variety of cypripediums are in flower, among them several very promising seedlings raised by Mr. Savage. The angræcums, variegated cattleyas and phalaenopsis also are in good shape at the time of writing and I must say it is quite a treat to the casual visitor examining this extensive collection. J. B. K.

Montreal.

The usual winter openings of the private conservatories commenced on the 1st inst. The only one the writer found time to visit last Saturday was that of Sir William Van Horne on Sherbrooke street. It stands directly east of the residence on the street front, and is of very modest design outside, it having no architectural decoration whatever. Inside, while in style of decoration it stands unique among the conservatories of Montreal, it is certainly very artistic; the design is in imitation of a sub-tropical garden, there being no benches whatever visible. Around the walls the piping is concealed by a bank of clinkers and cement, among which *Ficus repens* and various creepers of a similar nature run at will, there being here and there pockets where large specimens of different varieties of ferns are plunged, the pots being entirely hidden. Peeping out from among the ferns are scores of choice specimens of such plants as *Cyanophyllum magnifica*, *Maranta zehrina*, *Alocasia metallica*, *Anthurium crystallinum*, etc. At the middle two immense dry trunks of cork rise along two rafters and meet at the ridge, about thirty feet from the ground. They are made of blocks of cork fastened to the iron trusses by copper wire and are thickly hung with various orchids. In the middle of the house is a very large *Latania borbonica*, a large *Alsophila regalis* and a few large seaforthia and other palms, the pots of which are concealed in a bank of ashes, which is also concealed by creepers and low growing plants. I will not begin to enumerate all the rare tropical plants to be found in this group.

The pathway around the house is crooked all the way, giving a very natural appearance. It is of gray cement, which to our mind looks better than the rich tiles so often met with. There is a large collection of orchids on this place, but at the time of our visit those in bloom were a *Phajus grandifolia* with 24 spikes,

Vanda cœrulea, several *Cattleya Triaræ*, one noticed with 22 blooms; *Cœlogyne cristata*, several *dendrobiums*, *Oncidium splendens*, *Phalaenopsis Schilleriana*, *Angæum sesquipedale*, etc. The four largest and most perfectly shaped azaleas we ever saw are in the corners; they measure from three and a half to five feet across each, and were literally covered with bloom. The plan of this house was designed by Mr. Wm. Holliday, the present gardener, and executed under his immediate supervision; he is justly proud of his work. BEAVER.

Grand Rapids, Mich.

In the notes from this city on page 690 of our issue of February 1 in referring to the returns for carnations received by Messrs. Hopp & Linke the interrogation point in parenthesis should have been an exclamation point. The intent was to emphasize and not to question. As printed the line might be construed as throwing doubt upon the statements of Messrs. H. & L., and though their standing is such that a correction seems hardly necessary we make this explanation in justice to ourselves.

Oswego, N. Y.

Trade has been remarkably good here this winter, the demand being in excess of the supply, and more than one florist has had to refuse orders. Prices have been good. There is great activity just now preparing for the Easter trade, which bids fair to break previous records.

Walter Workman is building another house 54x14; this makes the third addition in two years. H. V.

Trouble With a Flue.

I have recently built a flue 100 feet long and 8x8 inches inside. The smoke stack is 25 feet high, of galvanized iron and 8 inches in diameter. In damp weather it does not draw perfectly. Can some one tell me the cause of the trouble?

D. E. D.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By a young man, age 20, 3 years in business, where he can further his knowledge. REX, care American Florist.

SITUATION WANTED—In greenhouse; steady worker; state wages. Address ROBERT MAIN, 64 North St., Gloversville, N. Y.

SITUATION WANTED—As florist and gardener by a married man of small family; good habits; private place preferred; good references. F. B. care American Florist.

SITUATION WANTED—As grower of roses, carnations, violets, palms, ferns, forcing all kinds of florists' stock; States preferred. Address Box 379, Brockville, Ont., Canada.

SITUATION WANTED—By gardener and florist for private place by April or later; 3 years in pre-ent position, married, age 33. Address with particulars P. O. Box 73, Au Sable Forks N. Y.

SITUATION WANTED—As manager or foreman; a practical grower of cut flowers and decorative plants; references. Address MANAGER, 1019 Vine St., Philadelphia.

SITUATION WANTED—By young man, German, 12 years' experience in cut flowers, bedding stuff and fruits; wish position on general or private place. B. SCHILLER, 3304 Westworth Ave., Chicago.

SITUATION WANTED—A young man with one year's experience in the business would like permanent position in greenhouse in or around Chicago. Address 355 care Am. Florist.

SITUATION WANTED—To take charge of private place by experienced gardener; thoroughly competent in all branches of greenhouse and outside work; reference. W. R. P. O., Louisville, Ky.

SITUATION WANTED—Store work at once by skilled decorator and design maker, capable of taking sole charge; many years' experience, references. FLORIST, Floral Co., Mt. Sterling, Ky.

SITUATION WANTED—By a first-class florist as foreman; excellent rose and cut flower grower; good grower and general plantman, single age 37; best of references; West preferred. Please address GROWER, care Am Florist.

SITUATION WANTED—By a young man skilled in growing general greenhouse stock, sober and industrious; 8 years' experience; permanent place preferable to high wages; east preferred. Address WESTERN, care American Florist.

SITUATION WANTED—On private place by young man, age 25; 5 years' experience in forcing of fruits and vegetables, growing of bedding plants, ferns etc. and care of lawns and garden. Address A. E. WOHLERT, care Penna R. R., Altoona, Pa.

SITUATION WANTED—In Cleveland or northern Ohio by a live florist, age 25, German; 10 years' experience in growing cut flowers, bedding plants, etc. nursery, landscape designing and decorating; good references; please state wages. Address J. D., Box No. 67, Wadsworth, Ohio.

SITUATION WANTED—By practical florist and gardener, 16 years' experience in greenhouse and landscape gardening reliable and steady; Swiss, age 33; best of references; competent to take charge of private place. Address ALFRED WAEGELIN, Morgan Park, Chicago.

SITUATION WANTED—By good competent all-round man as foreman or as assistant; well up in roses, carnations and general florists' stock and erection and heating of greenhouses, married, good references. T. HARVEY, care Geo. E. Lane, Bart, Wilkes Barre, Pa.

SITUATION WANTED—After April 1st as manager or foreman in a large establishment; excellent knowledge of plants and their cultivation; these last few years have been devoting my time exclusively to roses, carnations and other flowering plants; good references, English, 37 years of age. Address E. B. WARDEN, care C. R. Christy, Glenbrook, Conn.

WANTED—Address of Jos. Furmanski; send to S. FURMANSKI, Hansen Park, Ill.

WANTED—To buy or rent greenhouses for cut flowers. P. O. Box 70, Westfield, Mass.

WANTED—Man to take charge of small greenhouse and garden; send references and state wages wanted. LE MARC GREENHOUSE, Le Mars, Iowa.

WANTED—At once single man for general greenhouse work; must be reliable; steady place; state wages with board. H. M. care Am. Florist.

WANTED—At once, a good grower of carnations, violets, chrysanthemums, etc.; state wages wanted, etc.; when writing address VIOLET, care American Florist.

WANTED—Good man for general greenhouse work. must be quick at working among roses and understand steam heating. Address with references COMMERCIAL, care American Florist.

WANTED—A man to grow roses and carnations; must be well experienced and of good habits; steady employment and good pay for right man; married man preferable. B. B. care Am. Florist.

WANTED—To lease or buy on easy terms a florist establishment, or go into partnership with a man in good standing; have a thorough knowledge of the business, single, German, a hustler, small capital. Address with particulars ST. care Am. Florist.

FOR SALE—Good paying retail florist's establishment in live city; price moderate, terms easy, good trade. Write and I will explain in full. Address RETAILER, care American Florist.

FOR SALE—Florist business, established 7 years; good locality, and best funeral design trade in the city, with greenhouse attached. For particulars, apply to JOHN NEW, 21 Adelaide Street East, Toronto, Canada.

FOR SALE—Greenhouses and market garden establishment, including ten acres good vegetable land, with dwelling house, stable sheds and tools; houses well stocked and everything in first-class order; terms easy. For particulars address A. & B. care American Florist, Chicago.

FOR SALE—Fifteen greenhouses, five acres dwelling, barns, completely equipped florist's establishment and business for sale; located in the 25th ward, Flatbush, Brooklyn, N. Y. A fine opportunity to obtain an established business. Apply to HENRY W. SHERRILL, 13 Willoughby St., Brooklyn, N. Y.

FOR SALE—22 greenhouses and 5 acres land, about 1 acre under glass, with or without land, in good condition, houses filled with stock; will be sold at a bargain if taken at once, and intend to go out of business. For information address MR. P. J. DEESTER, 948 Winnebago St., Milwaukee, Wis.

FOR SALE.

Established vegetable and flower business; five acres of land, five greenhouses, 700 feet of glass; everything complete to carry on the business; a paying business and splendid location. Price \$3,500. Address X Y, care American Florist.

A FEW DOLLARS

Will buy a case of 130 seed drawers, with looking glass in center, \$25.00 worth of garden seeds, all fresh and pure; a large rustic show case, glass front and sliding doors, very pretty and odd; store counter, wheat sheaves, doves, etc. Just the thing for a store. Seed case cost \$70. Call or address W. B. WOODRUFF, Florist, Westfield, N. J.

Lenox, Mass.

Rosy cheeked youth and beauty such as only the glorious air of the Berkshire Hills can produce romped and made merry at the hall of the Sedgwick Annex at Lenox on the evening of January 29. It was the second annual ball of the Lenox Horticultural Society, and the affair had been the all-engrossing subject among the boys for a month past. The hall was tastefully festooned with evergreens studded with many colored electric lights and the walls and pillars decked with laurel and hemlock boughs. The guests were welcomed with characteristic hospitality, and everything was done to ensure the highest enjoyment for everyone. Pittsfield, Lee, Stockbridge, Dalton and the neighboring towns were well represented, and there were present from a distance W. A. Manda, South Orange, N. J.; C. B. Weathered, W. R. Phillips and P. O'Mara, New York; A. T. Boddington, Short Hills, N. J.; W. H. Wallace, Hartford, Conn.; and W. J. Stewart and T. J. Grey, Boston. The occasion was the second anniversary of the formation of the society. The little band of a dozen earnest gardeners who met two years ago in Mr. Huss' cozy little office has grown to a large and prosperous society, and its prospects are exceedingly bright.



I GROW as fine a Collection of

DAHLIAS

as it possible to obtain, of both old and new varieties. If you want a choice collection for a special purpose, I have studied your business and can give you varieties suitable to your purpose.

W. W. WILMORE,

Dahlia Specialist, Box 382, DENVER, COLO.

300 Acres in Nursery.

1 Acre of Glass.

Specialties for Florists.

Cardenias, 8, 12 and 18 inches, \$8.00, \$10.00 and \$12.00
Creveillea, 12, 18, 24 and 36 in., \$6.00, \$8.00, \$10.00 and \$15.00
Eugenia Jambos, fruit bearing, 18-24 inches, 12.00
Camphor, 12-18 and 36-40 inches, \$8.00 and 25.00
Guava Red Cattley, bearing size, 18-24 inches, 12.00
Magnolia Fuscata, 8, 12, 18-24 inches, \$10.00, \$12.00, \$15.00, 25.00
Olea Fragrans, 8, 15, 24 inches, \$8, \$12 and 20.00
Oranges & Lemons, grafted on dwarf stock, blooming size, stocky, 10-12 and 15-18 in., \$25 and 40.00
Otaheite Orange, bushy, 10 and 12-15 in., \$8 and 15.00
 Stock of above all pot-grown, ready now to ship, and in best possible condition.

Fruit and Ornamental Trees, Rare Conifers, etc. Send for Trade List and Descriptive Catalogue.

P. J. BERCKMANS.

Fruitland Nurseries, AUGUSTA, GA.

ROSES—Dormant.

Field-grown, own roots, one year cut back to 30 to 36 inches, three or more branches. Can be held dormant in cold storage until May 1st.

L'Enfant du Mt. Carmel Joasne Janet, Madame Planter, Baltimore Belle, in lots of 250 or over, \$30.00 per 1000. Freight paid to St. Louis. Address

W. F. HEIKES, Manager,
 Huntsville Wholesale Nurseries, Huntsville, Ala.
 Mention American Florist

HEADQUARTERS FOR CARNATIONISTS,

February 20 and 21,

Broadway Central Hotel,
NEW YORK,

Nos. 667 to 677 BROADWAY, Opposite Bond Street,

Midway between Battery and Central Park.

By far the Largest in New York, and one of the Great Hotels of the World.

LOCATION UNSURPASSED.

The RAPID TRANSIT CABLE LINES passing the doors run the entire length of Broadway from the Battery to Central Park, passing all the fashionable stores, theatres and principal attractions of the city.

All cross-town cars transfer at Broadway with the cable lines, taking guests direct to the hotel from every ferry, steamer dock or station.

Grand Central Depot passengers can take the Fourth Avenue street cars, through the tunnel, direct to Bond Street, one block in front.

Sixth Avenue Station or Elevated Railroad, Bleecker Street, one block in the rear.

Lexington Avenue Cable Cars pass the doors and run direct to the Grand Central Palace, where the meetings and exhibition of the American Carnation Society will be held.

The charges for each person will be:

For Room only, \$1.00 and upwards.

For Room and Board, \$2.50 and upwards.

Rooms with Parlor or Bath Extra.

UNITED STATES HOTEL,
BOSTON, MASS.TILLIE HAYNES,
PROPRIETOR.BROADWAY CENTRAL
HOTEL, NEW YORK.**100,000 VERBENAS.** THE CHOICEST VARIETIES
IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, \$1.00 per 100; \$8.00 per 1000.

NO RUST OR MILDEW.**PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.**

We are the Largest Growers of Verbenas in the country.

Our plants cannot be surpassed.

J. L. DILLON, Bloomsburg, Pa.

WATER LILIES.

We have added Aquatics to our line of specialties and carry a full line of stock suitable for all purposes. VICTORIA REGIA (new type, unsurpassed); NYMPHEAS, hardy and tender, all colors. NELUMBIUMS in variety. Seeds, tubers and plants. This department is under the management of the well-known specialist, William Tricker, who has merged his stock into ours.

Dreer's quarterly trade list just issued, describes everything, mailed to all the trade.

HENRY A. DREER, 714 Chestnut Street, Philadelphia, Pa.

ROSES

BEAUTIES, MERMETS, CUSINS, TESTOUTS, NIPHETOS, PERLES BRIDES, BRIDESMAIDS, METEOR, HOSTE, LA FRANCE, WOOTTON, WATTEYILLES, AUG. VICTORIA, MORGANS. Rooted Cuttings. Cash with order. Owing to number booked, they will be executed in rotation to assure prompt delivery. Order early. Address for quotations, VILLA LORRAINE ROSERIES, MADISON, NEW JERSEY.

Special Offer of Over Stock

	Per 100
Barberry, common, 2 ft.	\$2.00
purple-leaved, 2 ft.	2.00
Buckthorn, 2 to 3 ft.	3.00
Cornus Sanguinea, 3 ft.	6.00
Forsythia suspensa, 3 ft.	6.00
Hydrangea paniculata grandiflora, 2 ft.	6.00
Japan Pear, mixed, 2 to 3 ft.	6.00
Poplar Van Gertel and other sorts, 5 to 6 ft.	4.50
Privet, California, 3 ft.	3.00
2 ft.	2.00
Symphoricarpos vulgaris, 2 ft.	5.00
Rosa Indica, 2 to 3 ft.	6.00
Spiraea Van Houttei, 2 ft.	6.00
Viburnum Opulus, High bush Cranberry, 2 to 3 ft.	6.00
Willow in great variety, 6 to 7 ft.	5.00
Hemerocallis fulva, single.	3.00
double.	3.00
dava	3.00
Asclepias tuberosa, blooming plants	2.00
Spiraea Japonica, fine plants	3.50
And many other equally salable shrubs, cheap for cash. Priced Catalogue free.	
Shipping begins April 1st.	

B. M. WATSON,

Old Colony Nurseries, PLYMOUTH, MASS.

Rooted Cuttings.

Ceraniums—Double and single, a fine assortment of bedding varieties, large proportion of semi-double scarlets, all labelled, at \$12 per 1000, or \$1.60 per 100.
Coleus—Red and yellow, also twenty sorts of the finest fancy, at \$6.00 per 1000, or 75c per 100.

REPLANTED STOCK.

Ageratum—Cope's Pet. best blue, 10c per 100.
Heliotrope—Fine assorted, at 20c per dozen.
Pansies—Herr's strain, none better, \$8.00 per 1000, or \$1.00 per 100.

Stock grown by Daniel K. Herr. Address communications to

ALBERT M. HERR,
LANCASTER, PA.

L. B. 496.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

DON'T WAIT AND GET LEFT,

BUT SET YOUR ORDERS IN. Per 1000 Per 100
 Mme. Salicori Geranium.....\$12.00 \$1.50
 Cuphea platycentra (Clear Plant)..... 8.00 1.00
 Feverfew Little Gem..... 10.00 1.50
 Salvia splendens..... 10.00 1.25
 Alternanthera p. major and aurea nana..... 6.00 .75
 The above are grown in flats, and in fine condition.

ROOTED CUTTINGS.

Golden Queen, the only all around yellow
 Coleus and Crimson Verbenadentifolia.....\$ 6.00 \$.75
 Coleus in variety..... 5.00 .75
 Double Petunias..... 12.00 1.50
 Fuchsias, named varieties..... 12.00 1.50
 Heliotrope..... 8.00 1.00
 Double Golden Marquett..... 12.00 1.50
 Ageratum, blue and white..... 8.00 1.00
 Selection of sorts to remain with us.

Cash with the order.

J. E. FELTHOUSEN, Florist, Schenectady, N. Y.

FUCHSIAS.

... Choice Mixed.

GOOD ROOTED CUTTINGS,**\$1.00 per 100,**

By Mail Prepaid.

S. O. STREBY,

Lock Box 77,

UPPER SANDUSKY, OHIO.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.
Subscriptions accepted only from those
in the trade.

Advertisements, 10 Cents a Line, Agate;
Inch. \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
wares pertaining to those lines ONLY. Please to
remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to se-
cure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

Mr. J. A. PETTIGREW, lately superin-
tendent of the parks of Milwaukee, Wis.,
and formerly superintendent of Lincoln
Park, Chicago, has received appointment
as General Superintendent Department of
Parks, Brooklyn, N. Y., and will take
charge of that office March 1.

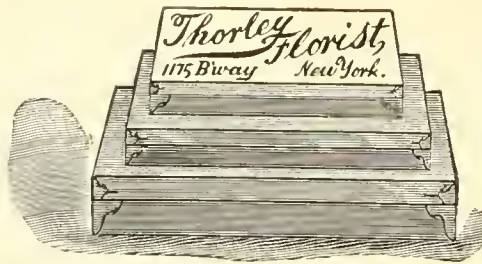
THE ROYAL SOCIETY of Horticulture
and Botany of Ghent, Belgium, has
issued schedule of their 162d horticultural
exposition, to be held November 15-17
next. Prizes are offered for chrysanthem-
ums, orchids and ornamental plants.
This is always one of the finest shows of
the Old World, and a matter of great
interest to European flower lovers.

THE SCHEDULE OF PRIZES offered by the
Massachusetts Horticultural Society for
the year 1896 is now published, and may
be obtained from the secretary, Robert
Manning. The sum of \$8,050 has been
appropriated for prizes and gratuities
during the year. The chrysanthemum
awards will be made in accordance with
the scale recommended by the American
Chrysanthemum Society.

THE MANY friends of Treasurer H. B.
Beatty of Oil City will be glad to hear
that on January 22 last he was elected
president of the Manufacturers' Gas Co.
of Pittsburg, Pa., a corporation having
an investment in oil and gas interests of
over one million dollars and doing an
annual business of nearly \$300,000. The
price of the stock of the company ad-
vanced 5 per cent the week following
President Beatty's election.

THE fifth annual meeting of the Ameri-
can Carnation Society will be held at the
Grand Central Palace, Lexington avenue
and 43d street, New York, Thursday and
Friday of next week, February 20 and 21.
An excellent program has been prepared
and the exhibition promises to far exceed
anything of the sort in the past. It will
undoubtedly be a memorable event and
anyone who can attend and fails to do
so will surely regret the lost oppor-
tunity.

THE CHRYSANTHEMUM ALBUM issued by
H. J. Jones, the well known English
chrysanthemum specialist, contains as
frontispiece a portrait of Sir Edwin Saun-
ders, president of the National Chrysan-
themum Society, and 35 full page (12x10
inches) illustrations of new or recent va-
rieties. The pictures are excellent half-
tone engravings, accompanied by descrip-
tion, and the publication is very well
printed and handsomely gotten up; stiff
paper binding. It will prove of much in-
terest to chrysanthemum growers. (Price
two shillings and sixpence. H. J. Jones,
Ryecroft Nursery, Lewisham S. E.,
London).



The boxes as they appear when set up for use.

We make them in a sufficient number of sizes, including for violets, to meet all necessary requirements.

THE NATIONAL FOLDING BOX & PAPER CO.,

NEW YORK SALESROOM:
132 & 134 Franklin Street.

315--325 Congress Ave., NEW HAVEN, CONN.

W. ELLISON,
WHOLESALE
Cut Flowers & Florists' Supplies
WIRE DESIGNS.
1402 PINE STREET,
St. Louis, Mo.

C. A. KUEHN,
(Successor to ELLISON & KUEHN.)
Wholesale Florist,
1122 PINE STREET,
ST. LOUIS, MO.
A complete line of Wire Designs.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

A. & F. RÖLKER,
Down-town Wholesale Florists,
106 & 108 Liberty Street (Basement),
NEW YORK.

Cut Smilax
15 CENTS PER STRING.
THE NATIONAL PLANT CO.
CASH. DAYTON, OHIO.

DAN'L B. LONG,
FLOWERS AT WHOLESALE.
Strictly Commission Business.
SUPPLIES, ETC.
LISTS FREE. BUFFALO, N. Y.

WATSON'S ENGLISH MUSHROOM SPAWN
THE  BRAND
Unsurpassed in quality, always fresh, well spawned and reliable, can
be thoroughly relied on to produce a fine crop of the best mushrooms.
No stock are the largest and finest in the country, and I sell at such
low prices for first quality spawners. Guaranteed the best in the
world. Standard of water-moulds to grow in. A trial order solicited.
These are low prices, not given by mail, and paid in the
U. S. to express or freight at the same, to the \$1 or 100 lbs.
\$1.50. Special prices for larger quantities. If you desire to
know more, catalogue and price list will be sent on request. Robinson's
Mushroom Culture, 1899, 1900, 1901, 1902, 1903, 1904.

C. C. WATSON, Wholesale Seedman, Phila., Pa.
42 North 10th Street.

FERNS.
Per 100
PTERIS TREMULA, 3-inch..... \$5.00
" ADIANTIFOLIA, 3-inch..... 4.00
" " 2 1/2-inch.... 2.00
These are nice bushy plants for immediate use.
JOSEPH KIFT, West Chester, Pa.

DAILLEDOUTE BROS.
CARNATION AND CHRYSANTHEMUM
SPECIALISTS,
FLATBUSH, BROOKLYN, N. Y.

"The National"

Folding Flower Boxes are the best
and most convenient ever put upon
the market. They are made from
board, manufactured especially for
these goods, and made so as to resist
moisture, thereby keeping the flow-
ers fresh, and the box holding its
shape.

**THE NEW YORK
CUT FLOWER CO.,**
119 and 121 W. 23rd St., and
112 and 114 W. 24th Street,
**IS NOW
OPEN FOR BUSINESS.**
The Largest Dealers in
**CUT FLOWERS
IN THE WORLD.**

Handling flowers of all kinds in quantity
we are in a position to fill shipping orders
promptly. We shall give careful attention
to this branch of the business, and solicit
your patronage.

**WHOLESALE
FLORISTS**
JOEBERS IN
FLORISTS'
SUPPLIES,
FLORISTS'
VASES.
METS,
BRIDES,
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.
84 Hawley Street,
BOSTON, MASS.
HORTICULTURAL AUCTIONEERS.
Always mention American Florist.

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.

Asparagus Plumosus Nanus.
Cut Strings, 8 to 10 feet long,
50 CENTS.
W. H. ELLIOTT, Brighton, Mass.

SAMUEL S. PENNOCK,
Wholesale Florist
1612 & 1614 BARKER STREET,
Bet. Market & Chestnut, PHILADELPHIA, PA.

E. H. HUNT,
WHOLESALE FLORIST
68 Lake Street, CHICAGO.

WHOLESALE CUT FLOWERS.
SEEDS, BULBS AND ALL
FLORISTS' SUPPLIES.

KENNICOTT BROS. CO.
Wholesale Cut Flowers
and FLORISTS' SUPPLIES,
88 Wabash Avenue, CHICAGO.

T. J. GORBREY & CO.,
Wholesale Commission Florists
59 Wabash Ave., CHICAGO.

If you want First-Class Flowers, properly packed and delivered on time, send me your orders and you will get what you want.

We are now prepared to furnish Florists' Wire Designs and a full line of Florists' Supplies.
WRITE US FOR OUR ILLUSTRATED CATALOGUE.

Bassett & Washburn,
Successors to J. B. DEAMUD & CO.,
CUT FLOWERS,
DEALERS in
88 Wabash Avenue,
CHICAGO.
HEADQUARTERS FOR AMERICAN BEAUTIES.

A. L. RANDALL,
Wholesale Florist,
126 Dearborn St., CHICAGO.

Agent for finest grades Waxed and Tissue Papers.

Reinberg Bros.
WHOLESALE CUT FLOWERS,
51 WABASH AVENUE,
CHICAGO.
Telephone Main 4937.
Our Roses best them all, in quality.
Headquarters for fine American Beauties.

W. E. LYNCH,
WHOLESALE CUT FLOWERS,
Wire Designs a Specialty.
59 WABASH AVENUE,
CHICAGO.

ROGERS PARK FLORAL CO.,
Wholesale Growers of
CUT FLOWERS,
41 WABASH AVENUE,
CHICAGO.

We are prepared to fill your orders with first-class flowers. Give us a trial order.

A. G. Prince & Co.
WHOLESALE
COMMISSION FLORISTS,
41 Wabash Avenue,
Telephone Main 3208. CHICAGO.
Consignments solicited. Prompt attention to all orders.

Wholesale Markets.

Cut Flowers.

NEW YORK, Feb. 12.	
Roses, Beauty, extra grades.....	8.00@10.00
" " culls.....	5.00@10.00
" " Perle.....	2.00@5.00
" " Testout.....	1.00@15.00
" " Custn, Waterville.....	2.00@4.00
" " Bride, Bridesmaid.....	3.00@8.00
" " Meteor, Morgan.....	6.00@12.00
" " Common mixed stock.....	2.00@4.00
Carnations, ordinary.....	50¢@1.00
" " fancy.....	2.00@3.00
Violets.....	1.00@1.50
Valley.....	1.00@2.00
Harrill, callas.....	6.00@8.00
Daffodils.....	2.00@4.00
Mignonette.....	2.00@15.00
Roman hyacinths and paper white.....	1.00@2.00
Tulips.....	1.00@2.00
Cypripedium.....	1.00@12.00
Cattleyas.....	30.00@40.00
Lilac, per bunch.....	1.00
Adiantum.....	1.00
Asparagus.....	50.00
Smilax.....	12.00
BOSTON, Feb. 12.	
Roses, Gontier, Niphetos.....	5.00@5.00
" " Perle, Hoste.....	1.00@8.00
" " Bride, Bridesmaid, Mernet.....	5.00@12.00
" " Meteor.....	5.00@8.00
" " Beauty.....	10.00@50.00
Carnations.....	1.50@2.50
" " fancy.....	2.50@4.00
Violets.....	75¢@1.00
Valley.....	2.00@4.00
Harrill, callas.....	12.00
Paper white narcissus.....	2.00
Romans.....	2.00
Freesia.....	1.50
Daffodils double.....	3.00
" " single.....	1.00@2.00
Stevia, Marguerites.....	1.00
Mignonette.....	2.00@4.00
Cypripedium.....	12.00
Adiantum.....	1.00
Smilax.....	12.00
Asparagus.....	50.00
PHILADELPHIA, Feb. 12.	
Roses, Beauties.....	8.00@50.00
" " Bruners.....	2.00@10.00
" " best selected teas.....	5.00@10.00
" " seconds and small stock.....	6.00@8.00
" " Morgan.....	10.00@12.00
Carnations, general stock.....	1.00@2.00
" " selected and choice kinds.....	3.00@4.00
Harrill.....	8.00@12.00
Valley.....	4.00@5.00
Romans and Paper White.....	2.00@3.00
Violets.....	75¢@1.00
Mignonette.....	2.00@3.00
Freesia.....	1.00@2.00
Smilax.....	15.00@20.00
Asparagus.....	50.00
Maldenhair.....	1.00
CHICAGO, Feb. 14.	
Roses, Beauties.....	25.00@50.00
" " seconds.....	6.00@20.00
" " Perle, Morgan, Siebrecht.....	5.00@6.00
" " Brides, Bridesmaid.....	7.00@10.00
" " Meteors.....	7.00@10.00
" " Testout.....	8.00@12.00
Carnations.....	1.00@2.00
" " fancy.....	2.00@3.00
Harrill, callas.....	12.50
Valley.....	4.00
Violets.....	1.00@1.25
Roman hyacinths.....	2.00@3.00
Narcissus (paper white).....	3.00
Hyacinths, Dutch.....	4.00@6.00
Narcissus Von Sion.....	4.00
Freesia.....	5.00
Smilax.....	12.50@15.00
Asparagus.....	50.00
ST. LOUIS, Feb. 12.	
Roses, Beauties long.....	25.00@50.00
" " select stock.....	6.00@12.50
" " general stock.....	4.00@15.00
Carnations.....	1.00@3.00
Valley.....	3.00@4.00
Harrill.....	12.50
Callas.....	10.00@15.00
Romans.....	2.00@4.00
Paper white narcissus.....	3.00@4.00
Daffodils double.....	1.50@2.50
" " single.....	1.00
Tulips.....	4.00
Mignonette.....	3.00@4.00
Violets single.....	25
" " double.....	1.00@2.00
Smilax.....	12.00@15.00
Freesia.....	5.00
Asparagus.....	50.00
Adiantum.....	1.00
BUFFALO, Feb. 10.	
Roses, Beauties.....	15.00@40.00
" " Meteors.....	6.00@10.00
" " Bridesmaid, Mermets, Bride.....	6.00@10.00
" " Custn, Perle.....	5.00@8.00
Carnations, fancy.....	2.00@3.00
" " common.....	1.50@2.00
" " short.....	1.00
Harrill.....	12.00@15.00
Callas.....	10.00@12.00
Romans.....	5.00
Valley.....	4.00
Violets.....	1.00@1.50
Tulips.....	3.00@4.00
Daffodils.....	4.00
Smilax.....	12.00@15.00

GEORGE A. SUTHERLAND,
Successor to PECK & SUTHERLAND,
Successors to WM. J. STEWART,
Cut Flowers & Florists' Supplies
WHOLESALE.
67 Bromfield St., BOSTON, MASS.
New England Agent for the GREAT ANTIPEST.

John I. Raynor,
49 WEST 28th STREET,
NEW YORK.

SPECIAL EXTRA STOCK OF
AM. BEAUTY, METEOR,
BRIDESMAID, BRIDE.

DISBUDED CARNATIONS.
FANCY GRADE.

Finest MIGNONETTE in the world.

THOS. YOUNG, Jr.
Cut Flowers,
WHOLESALE,
43 W. 28th Street, NEW YORK.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST,
32 West 30th Street, NEW YORK.

Roses Shipped to all points. Price list on application.

Edward C. Horan,
34 W. 29th Street, NEW YORK,
WHOLESALE • FLORIST.

Careful Shipping to all parts of the country.
Price list on application.

Purdy & Blauvelt,
WHOLESALE DEALERS IN
CUT FLOWERS,
57 W. 30th St., NEW YORK.

JOHN YOUNG,
FINE ROSES
WHOLESALE,
51 West 28th St., NEW YORK.

FRANK MILLANG,
CUT FLOWERS,
WHOLESALE, COMMISSION,
408 E. 34th Street,

Cut Flower Exchange, NEW YORK.

THEO. ROEHRS,
WHOLESALE
FLORIST
111 WEST 30TH STREET,
Established 1879. NEW YORK CITY.

JULIUS LANG,
(Formerly with THEO. ROEHRS.)
Commission Dealer in Cut Flowers,
WHOLESALE,
53 West 30th St., NEW YORK CITY.

The Seed Trade.

AMERICAN SEED TRADE ASSOCIATION.

S. E. BRIGGS, Pres.; T. W. WOOD, 1st Vice-Pres.; ALEX. RODGERS, 2nd Vice-Pres.; A. L. DON, 114 Chambers St., New York, Sec'y and Treas. The fourteenth annual meeting will be held at Niagara Falls, N. Y., June 9 to 11, 1896.

About Warranted Seeds.

Feb. 4th, 1896.

To the Editor of
The American Florist,
Chicago, Ill.:

In THE AMERICAN FLORIST of Feb. 1st, received to-day, your remarks on "WARRANTED SEEDS" seem to me entirely unwarranted by the facts of the case.

After stating that "The American Seed Trade Association and high class seedsmen generally have for the past decade religiously stood by the NON-WARRANTY flag," you say:

"Now for 1896 come certain leading American houses, and for the sake of a little cheap personal glory, advertise '—s Seeds are warranted'."

Perhaps you refer to us, although our position to-day is exactly the same as it has been for many years past, and *always will be*. You will admit that we rank among "high class seedsmen" and that the writer is a member, in good standing, of the American Seed Trade Association, having been elected its president in your own city only three years ago.

Before the American Seed Trade Association was formed and each year since we have warranted our seeds "BOLDLY"—that is, with complete confidence. We have not "hidden our light under a bushel" and only now in 1896 brought it out. On the first inside cover page of our catalogue for many years past we have made in BOLD FACED TYPE a statement similar to that below, which is taken from THE FARM ANNUAL FOR 1896.

BURPEE'S SEEDS

And are WARRANTED First-Class in Every Respect.

—FEW EQUAL AND NONE BETTER.—

WE GUARANTEE that all SEEDS sold by us are FIRST-CLASS, true and pure, and of strong germinating power, in so far that should any prove otherwise we will refill the order free or refund the price paid. Further than this we cannot warrant, but this is a satisfaction given by but few seedsmen, and must convince even those who have never dealt with us of the extreme care we exercise in growing and sending out our seeds.

Surely seed buyers have a right to some reasonable assurance that the seeds they order are first-class!

It is the business of a competent, honest seedsmen to know the seeds he sells and to sell only such seeds as CAN BE warranted.

If the editor of your Seed Trade Department wishes to argue this point before the fourteenth annual meeting of the American Seed Trade Association at Niagara Falls in June next I will enter gladly into the discussion.

I have always thought that the usual disclaimer or non-warranty clause was altogether wrong. It is not fair to the purchaser, and is likely to create carelessness on the part of the seedsmen and his employees.



[We gladly publish the above from Messrs. Burpee & Co. as indicating how far and to what extent the article in our issue of February 1 applies or does not apply to that house. In this connection we photo-reproduce also Messrs. Burpee & Co.'s adv. as it appeared in February 1 issue of the Farm Journal, Phila., in



NEW BOOK of 184 pages, it is pronounced by papers everywhere THE Leading American Seed Catalogue.

W. ATLEE BURPEE & CO., Seed Growers, Philadelphia, Pa.

which it seems to us the expression BURPEE'S SEED ARE WARRANTED is used boldly, and almost unqualifiedly, and could not be otherwise understood as meaning less than a warranty by the ordinary reader, but we in no way assume to deny any advertiser the right to warrant in this or in any other manner he may choose, but we do mean that this adv. as printed is out of and beyond the bounds set by leading foreign and American houses. Our editorial did not criticise the positions stated in catalogues, but in certain advertisements which we claimed and do claim are misleading, and that the casual reader would expect a "warranty" until enlightened by the reservations made in the catalogue itself.

Mr. Burpee again says in his letter: "It is the business of a competent, honest seedsmen to know the seeds he sells and to sell only such seeds as CAN BE warranted."

The leading authorities of the world agree that to warrant seeds in the sense of being responsible for the crop is little less than quackery; and if they are right the word "WARRANT" should always be qualified with the words "so far as to repay the value should the seed fail," or

give below the views of a few leading foreign and American seed houses declining to "WARRANT" in any manner as expressed in their latest catalogues:

PARIS, FRANCE.

Vilmorin, Andrieux & Co. say:

We beg leave to observe that all our goods are

If You Garden for Profit

you can save money and should buy at Wholesale Prices, as quoted in BURPEE'S BLUE LIST for 1896. It is mailed FREE to Market Gardeners every where, who, while entitled to the lowest prices possible, should be sure always to get Only the Best Seeds that Grow! BURPEE'S SEEDS are WARRANTED, —few equal, none better— and are annually sold direct to many more planters than are the seeds of any other growers.

NEW BOOK of 184 pages, it is pronounced by papers everywhere THE Leading American Seed Catalogue.

W. ATLEE BURPEE & CO., Seed Growers, Philadelphia, Pa.

sold delivered and payable in Paris, that all difficulties arising are to be decided according to the law of France, that we give no warranty express or implied as to description, quality, productiveness or any other matter connected with seeds or bulbs we send out, that we will not be in any way responsible for the crop and that in no case and under no circumstance we will be responsible beyond the price invoiced for each article.

LONDON, ENGLAND.

Hurst & Son say:

Messrs. Hurst & Son give no warranty expressed or implied as to description, quality, productiveness or any other matter of any seeds sent out and will not be, in any way, responsible for the crop. If the purchaser does not accept the goods on these terms they are at once to be returned.

ERFURT, GERMANY.

Ernst Benary says:

Ernst Benary sends out only seeds that will, to the best of his belief, give entire satisfaction; it must, however, be expressly understood that, immunity from error being unattainable and success more often dependent on climatic or local influences than is generally supposed, he warrants neither description, growth nor productiveness of any seeds he sells, nor will he hold himself in any way responsible for the crop. E. B. will take it for granted that all who order from him do so with a full knowledge of the preceding.

READING, ENGLAND.

Sutton & Sons say:

Non-warranty.—We wish it to be distinctly understood that although we continue to take all possible pains to supply only new, genuine and unadulterated seeds, we will give no warranty express or implied as to description, quality, productiveness or any other matter of any of the seeds we send out and will not be in any way responsible for the crop. Every order received for articles named in this catalogue will be executed on these conditions only.

NEW YORK, N. Y.

J. M. Thorburn & Co. say:

Warranties.—Seeds of the best possible quality will fail through improper treatment. Thus, if a small seed be sown so deeply that the young plant cannot reach the surface, the seed, however good, will fail. More failures result from a want of proper knowledge of conditions necessary to germination than from bad quality of seeds themselves. These conditions are, a proper temperature, sufficient moisture and free access of air; besides these, the soil must be in proper condition and present no physical obstacle to the growth of the young plant. If heavy rains have compacted the surface of the soil, and the sun has baked it to a hard crust, it will be impossible, even if all other conditions are favorable, for the seedling plants to force their way through it, and many perish from this cause alone. Seeds differ greatly as to the temperature required for germination. Beets, cress, peas, etc., germinate rapidly at a temperature of 45°; but if melons and other seeds of that family, bush or pole beans, and other plants of sub-tropical origin, are sown under the same conditions, they will be apt to decay, as for their prompt germination they require a heat of at least 60°. For this reason many seeds fail yearly from too early sowing. The second condition, proper moisture, is likely to be violated by an excess rather than by too little moisture. The proper amount is that which a well-drained soil will naturally hold. Free access of air is all-important, and this is interfered with by an excess of water in the soil. In germination complex chemical changes take place in the seeds, in which the seed performs an important part. A portion of the seed is consumed, carbonic acid gas being given off in changing the starch and other constituents of the seed into nutriment to forward the growth of the germ or embryo plant, which depends upon the contents of the seed until it has formed roots below ground and

some similar phrase. But of what little value to the planter is the repayment to him of \$2.50 when the many acres planted from one pound of cabbage seed fail him in a crop. Of what value to him is the "WARRANT" which offers him as a recompense the paltry \$2.50 paid for the seed. It may be truly said to

"Hold the word of promise to the ear
And break it to the heart."

Messrs. Burpee & Co. need not claim to be the only firm so advertising, as page 30 of the Farm Journal, February 1 issue, shows the words "WARRANTED SEEDS" in much bolder type than Messrs. Burpee & Co. use, while page 31 shows two other advertisements of warranted seeds. The point made in our editorial therefore is four times illustrated in that one publication, and we intended and still intend our criticism to be a general one, believing that the summary of opinions of the leading seedsmen of the world does not justify the use of the word "warranted".—[Ed.]

Non-Warranty.

In connection with the foregoing we

leaves above, and is able to sustain itself. Besides these conditions, affecting the germination of the seed, the young plants, after they have made their way to the surface, are liable to various accidents; a sudden current of very cold air, or a continued drying wind, may check their growth, or destroy the young plants altogether. In addition, there are numerous insects, both below and above ground, that may attack the plants, some of these being so small that they often destroy a crop before they are discovered. For the above reasons, we wish to state in this explicit form, that, while we exercise great care to have all seeds pure, reliable and true to name, our seeds are sold without any warranty, expressed or implied, and without any responsibility in respect to the crop. If our seeds are not accepted on these terms, they must be returned at once.

DETROIT, MICH.

D. M. Ferry & Co. say:

Guarantee.—Complaints made that seeds are not good, should quite as often be attributed to other causes as to the quality of the seeds. There are hundreds of contingencies continually arising to prevent the best seeds always giving satisfaction, such as sowing too deep, too shallow, in too wet or too dry soil; insects of all descriptions destroying the plants as soon as or before they appear; wet weather, cold weather, frosts, chemical changes in the seeds induced by temperature, etc. For the above reasons it is impracticable to guarantee seeds under all circumstances.

In producing and handling our seeds we take every possible precaution to have all of them of the highest quality, but we give no warranty, express or implied, as to description, purity, productiveness, or any other matter connected with any seeds we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept the seeds on these terms they must be returned at once, and any money paid us for them will be refunded.

COLUMBUS, OHIO.

A. W. Livingston's Sons say:

Guarantee.—Complaints made that seeds are not good should quite as often be attributed to other causes as to the quality of the seeds. There are contingencies continually arising to prevent the very best seeds always giving satisfaction, such as sowing too deep, too shallow, in too wet or too dry soil; insects of all descriptions destroying the plants as soon as or before they appear; wet weather, cold weather, frosts, chemical changes in the seeds induced by temperature, etc. For all these reasons it is impossible to guarantee seeds under all circumstances, and, while we exercise the greatest care to have all seeds pure and reliable, we do not give any warranty, expressed or implied. If the purchaser does not accept the seeds on these terms and conditions they must be returned at once and the money that has been paid for the same will be returned. We test our seeds before sending them out, and should they fail to grow when properly tested by the customer we will replace the same amount or give value in others. We cannot afford, knowingly, to send out seeds doubtful as to vitality or purity, and you can get no better stocks of any seedsmen, even though he deceitfully professes to warrant seeds, which frequently covers nothing but the amount paid for the seed. A guarantee from an irresponsible seedsmen is of no value whatever.

PHILADELPHIA, PA.

D. Landreth & Sons say:

NOTE.—While we exercise the greatest care to supply every article true to name, and of the very best quality, we wish it distinctly understood that we do not warrant our seeds and that we are not, in any respect, responsible for any loss or damage arising from any failure thereof.

PHILADELPHIA, PA.

Henry A. Dreer, Seedsman, says:

Non-warranty.—We wish to be distinctly understood that although we continue to take all possible pains to supply only new, genuine and unadulterated seeds we will give no warranty, express or implied, as to description, quality, productiveness or any other matter of any of the seeds we send out and will not be in any way responsible for the crop. Every order received for articles named in this catalogue will be executed on these conditions only.

WARRANTY.

As inclining to warranty yet disclaiming any responsibility beyond refilling order or sending seed of same value we give the following: (Note the italics "*in so far*" and "*so far as that*,"

MARLBLEHEAD, MASS.

J. J. H. Gregory & Son say:

The Three Warrants.—All seeds sent out from our establishment are always sold under three

warrants, viz.: 1st, that our seeds shall be what it purports to be, *so far as that* we hold ourselves ready to refill the order anew, or to send other seed to the same amount, gratis, should it prove defective in any respect.

What is there to gain by selling poor seed after having made this warrant? 2nd, that all money sent for seeds over one dollar shall reach us if sent by Postoffice Order on Marblehead, Express Money Order, Registered Letter, Draft, or Cashier's Check. Sums of one dollar and under may be sent at our risk. 3rd, that the seed ordered shall reach every one of our customers. Thus we warrant everything but the crop, and make the purchase of seed the safest investment possible, instead of being what it has so often proved to be, very unreliable and vexing.

MINNEAPOLIS.

Northrup, Braslan, Goodwin Co. say:

Our Warrant. Vegetable and flower seeds sold from this catalogue are warranted to prove of strong growth and of satisfactory quality and purity, *in so far* that, should the contrary prove the case, through and defect in the seed, we will refill the order for such defective seed free of charge, or refund the money paid us for it. Grass and Field Seeds.—With our improved machinery we are enabled to clean these seeds so thoroughly that we sell them on the following conditions: If upon arrival and prompt test they do not develop a high percentage of growth, or fail to prove of satisfactory purity under microscopic examination, they are to be returned at our expense. Beyond these plainly expressed conditions we give no warrant whatever, as the outcome of a crop is beyond human control; but as these are the strongest warrants made by any seed house they should satisfy the most careful purchaser of the confidence we have in our ability to supply good seeds.

PHILADELPHIA, PA.

Wm. Henry Maule says:

Guarantee "4."—I guarantee my seeds to be just as represented. If they prove otherwise I will refill the order free of charge; but it must be understood that I do not guarantee the crop any further than to refill the order.

Still another view:

ROCKFORD, ILL.

R. H. Shumway says:

HONEST SEEDS. In treating this subject with the justice it most properly deserves, I must say, that every seedsmen realizes the fact that it is greatly to his own advantage to sell only the best seeds he can obtain. I do not believe that seedsmen are intentionally dishonest. All of them intend to offer good seed, but the most frequent cause of failures with many firms is they carry over too many seeds. When a large quantity of old seeds is mixed with a small quantity of new crop it makes the entire supply too unreliable for the use of our gardeners. I have always made it a fine point of accurate judgment to seldom carry over any seeds to such amount that would be considered of any value. Thirty years of constant experience has enabled me to judge very closely of what amount I can use of each variety. Last season I had 5,000 pounds of Red Wethersfield Onion, and I did not carry over a pound. Of many varieties from 100 to 1,000 pounds each; I did not have over a few ounces left. I make the positive boast every year, that I clear out my stock closer than any seedsmen in the world, and have often sold seeds late in the spring and early summer at half the price I paid for them to accomplish my determination. It gives me the advantage of handling a fresher stock of seeds than any seedsmen in the world. When the excessive anxiety and labors of the day have passed it is a great pleasure and satisfaction to know that I have been dealing honestly with my fellow-men, and when overcome with exhaustion by constant toil I can go to peaceful sleep which does not border on dishonesty. If I had practiced any dishonesty in my business to secure wealth I believe that misfortune would have surely overtaken me and I would not become the owner of the largest mail trade in the world.

Another Letter from Mr Burpee.

PHILADELPHIA, PA., Feb. 10, '96.

To the Editor of

THE AMERICAN FLORIST, Chicago:

Dear Sir:—We acknowledge receipt today of your courteous favor of the 7th inst., and are glad to learn that you will give this matter of "WARRANTED SEEDS" a full discussion in an early issue of the AMERICAN FLORIST. We hope the same subject may be brought before the next annual meeting in June of the American Seed Trade Association. If the writer can arrange to return in time from a spring trip to California we purpose then

to recommend a resolution worded somewhat as follows:

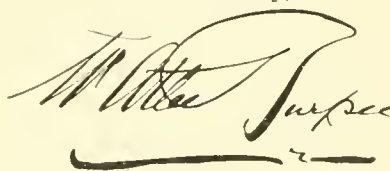
We warrant all seeds sold by us to be first-class, pure and true to name, *in so far* that should any prove otherwise we will refund the price paid. The success of a crop depends, however, upon so many causes, beyond control of either seedsmen or planter, that we assume no responsibility further than the price paid for the seed. We test all seeds both for vitality and purity; should any mistake occur as will be shown the same season by the records of our trials, we will refund the amount paid. Further than this no responsible seedsmen can warrant. We solicit orders only from planters who have confidence in our trustworthy and careful business methods. Should any seeds purchased from us not be accepted under the conditions named they are to be returned immediately in unbroken packages, when the amount paid will be refunded.

In our opinion, if this subject were properly presented, every honest, self-respecting seedsmen should be willing thus to warrant his seeds—notwithstanding the general custom at present is to the contrary. If a reputable dealer sells half-cotton goods for all-wool he will make it right; should the standard of mercantile honor among seedsmen be lower than among tailors?

While we exercise every precaution to avoid error it has been our custom always should a mistake occur in selling seeds, either at retail or wholesale, to refund the price paid. For instance, some years ago when our contract crops of American Wonder peas were very short we purchased some from a grower whose statements we believed. Ten bushels of these were sold to a prominent Philadelphia seedsmen, Henry A. Dreer. Both his trials and ours showed that we had been deceived, and that the peas were only Little Gems. Of course we allowed his claim, although we could recover nothing from the grower who had sold the peas under false representations to us. We think that most other honorable houses, even where protected by the non-warranty clause, would likewise have allowed a similar claim.

The AMERICAN FLORIST is a trade journal of national influence, and a full discussion of "warranted seeds" will be of wide interest, both in America and Europe. We are glad, therefore, that the question was raised, although at first we felt aggrieved at what seemed an unwarranted criticism of our position, which has been the same for so many years.

Yours truly,


OBITUARY.

RICHARD FROTSCHER.

It is with deep regret that the death of this well known New Orleans seedsmen is announced. Mr. Frotscher appeared well up to within a few days of his demise, when pneumonia set in, resulting fatally. He was 63 years old.

Mr. Frotscher was a native of Leipzig, Germany, coming to this country when a young man. He first went to Philadelphia, then to New Orleans, where he conducted his long established seed business. He was highly esteemed for his character and benevolence, and leaves many friends. He was connected with several public enterprises, being for 25 years a director of the Teutonia Insurance Co., and was also connected with the Society for the Assistance of German Immigrants, the German Protestant Association, Garden

ers' Protective Association, N. O. Hort. Society, and was the pioneer member of the Park Commission. He leaves a widow and family. His funeral was largely attended, the floral offerings being numerous and beautiful.

HARRY PAPWORTH.

J. WILDER & Co., seedsmen, Cincinnati, have assigned.

THE California seed crops are reported as improved by recent heavy rains and generally in good condition though nearly two months late.

THE MAIL ORDER business is said to have about held its own in January; but increased the first ten days of February, the orders being more numerous though hardly as large as in former years; the open weather may in part account for increased trade.

VISITED CHICAGO: E. M. Parmelee, of the John Allan Seed Co.; Edward Morris, lately with the Sunset Seed Co., San Francisco; K. F. Kaan, representing C. J. Joosten, New York, N. Y.; W. G. Langbridge, Frank T. Emerson, Henry A. Salzer.

Catalogues Received.

J. W. Austin, Pilot Point, Tex., nursery stock; Cole's Seed Store, Pella, Iowa, seeds; Wm. Rennie, Toronto, Ont., seeds; John Gardiner & Co., Philadelphia, seeds; Lee-Kinsey Implement Co., Denver, Colo., seeds; McCornac & Co., Paterson, N. J., carnations; R. & J. Farquhar, Boston, seeds; F. H. Horsford, Charlotte, Vt., hardy plants; Texas Seed and Floral Co., Dallas, Tex., seeds; Haage & Schmidt, Erfurt, Germany, seeds.

Sunset Seed and Plant Co., San Francisco, seeds and plants; The Geo. H. Melien Co., Springfield, O., seeds and plants; Currie Bros., Milwaukee, Wis., seeds and plants; J. L. Dillon, Bloomsburg, Pa., plants and rooted cuttings; W. Piercy, Forest Hill, London, chrysanthemums; Frank Banning, Kinsman, O., seeds and plants; Ben Hains Co., New Albany, Ind., trade list plants; W. W. Barnard & Co., Chicago, seeds; Griffith, Turner & Co., Baltimore, Md., seeds; Ben Hains Co., New Albany, Ind., seeds and plants; Vilmorin Andrieux & Cie, Paris, France, seeds; Louis Vieweg, Quedlinburg, Prussia, new rose; D. E. Dortch, Columbia, Tenn., plants; H. J. Jones, Lewisham, England, chrysanthemums.

H. F. Michell, Philadelphia, retail list seeds; same, wholesale list seeds; E. G. Hill & Co., Richmond, Ind., plants; W. Atlee Burpee, Philadelphia, trade list seeds; Z. D. Forest Ely & Co., Philadelphia, wholesale list seeds; Wood Bros., Fishkill, N. Y., trade list plants and rooted cuttings; Pitcher & Manda, Short Hills, N. J., seeds and plants; same, quarterly trade list; J. N. May, Summit, N. J., trade list plants; Pomona Nurseries, Parry, N. J., nursery stock; Rivoire Pere & Fils, Lyons, France, seed novelties; G. Hancock & Son, Grand Haven, Mich., carnations; Tillinghast Bros., La Plume, Pa., seeds; A. B. Davis & Son, Purcellville, Va., plants; The Goulds Mfg. Co., New York, spraying machinery; D. M. Andrews, Boulder, Colo., hardy plants; N. Smith & Son, Adrian, Mich., chrysanthemums and carnations.

WE HAVE RECEIVED from Mr. Chas. S. Swayne, Kennett Square, Pa., a bunch of very fine Lady Campbell violets. As grown by Mr. Swayne Lady Campbell is certainly an excellent violet of extra large size and good color.

REINBERG BROS.,

Wholesale Growers of all Leading Varieties of Roses and Carnations,
WILL OFFER THE FOLLOWING FOR SPRING PLANTING:

Roses in 2 1-2 inch pots.

	Per 100	Per 1000
AM. BEAUTIES.....	\$5.00	\$40.00
C. TESTOUT.....	4.00	35.00
KAISERIN VICTORIA.....	4.00	35.00
GOLDEN GATE.....	4.00	35.00
BELLE SIEBRECHT.....	4.00	35.00
BRIDESMAID.....	3.00	25.00
BRIDES.....	3.00	25.00
PERLES.....	3.00	25.00
METEORS.....	3.00	25.00

Orders for less than 50 of any one variety not accepted. READY FOR SHIPMENT MARCH 1st.

Rooted Carnation Cuttings.

	Per 100	Per 1000
WM. SCOTT.....	\$1.25	\$10.00
TIDAL WAVE.....	1.00	8.00
DAYBREAK.....	1.00	8.00
PORTIA.....	1.00	8.00
NANCY HANKS.....	1.00	8.00
LIZZIE MCGOWAN.....	1.00	8.00
UNCLE JOHN.....	1.00	8.00
SILVER SPRAY.....	1.00	8.00

Free of rust. Ready for immediate shipment.

Orders for less than 100 of any one variety not accepted.

Send orders to **51 Wabash Ave., CHICAGO, ILL.**



HERMOSA ROSES.

FIRST SIZE.....	per 100, \$5.00;	per 1000, \$45.00
SECOND SIZE.....	per 100, 7.00;	per 1000, 60.00
HOLLAND GROWN, 2 year, strong.....	per 100, 10.00.	



H. P. ROSES, 2 YEAR (Budded).

All Leading Varieties.....	per 100, \$10.00
CLOTHILDE SOUPERT, 8 to 12-inch, strong.....	per 100, 10.00



CLEMATIS (Jackmanni and type).

Holland grown, 2 year.....	12 for \$3.75; per 100, \$27.50
Holland grown, 3 year.....	per 100, 4.80; per 100, 38.00
HYDRANCEA P. Cr., 4 feet, strong.....	12 for 1.50; per 100, 10.00



VAUGHAN'S SEED STORE, 84 & 86 RANDOLPH STREET, CHICAGO.

ROOTED ROSE CUTTINGS

From choice flowering wood, free of disease and well rooted.

American Beauty.....	2 1/2 cts
Brides.....	1 1/2 cts
Bridesmaids.....	1 1/2 cts
Meteors.....	1 1/2 cts

Young Rose Plants.

In 2 1/2-inch pots, ready about March 1st.

American Beauty.....	\$5.00 per 100
Mrs. Pierpont Morgan.....	6.00 "
Mrs. W. C. Whitney.....	6.00 "
Belle Siebrecht.....	3.50 "
Brides.....	3.00 "
Bridesmaids.....	3.00 "
Meteors.....	3.00 "

Our New 'Mum KATE B. WASHBURN, 2-inch pots, 10 cts. The earliest very large white in the market.

No order for less than 100 filled at these prices.

Bassett & Washburn,
HINSDALE, ILL.

CYCAS REVOLUTA.

Orders booked now for fresh imported stems, fronds and roots cut off; best long-leaved variety. Delivery from March 1st. Cultivated Cycas always on hand, rooted and well established, at low prices.

Lil. Auratum, Spec. Rubrum and Album, Etc.
Iris Kämpferi, in 100 choice varieties.
Japanese Maples, in best varieties.
Camellias, Pæonies, Tree Ferns, Rhapis, Etc.
Araucaria excelsa, choice cultivated stock at lowest prices.

For general Japanese stock apply to

F. Gonzalez & Co.

303 to 312 Wayne St., SAN FRANCISCO, CAL.

Waco, Tex.

Mrs. Kirkpatrick & Son have ventured in the business with about 400 feet of glass on corner 8th and Clay streets.

Jas. Wolfe has built a house with about 800 feet of glass and also opened a store in town.

NOW is a good time to secure a strong healthy stock of the

CELEBRATED NEW ROSE

MRS. PIERPONT MORGAN

which has unmistakably grown in popularity as the season advanced.

Prices for strong plants ready for immediate delivery are as follows:

From 2-inch pots.....	per 100, \$125.00
" " ".....	per 100 65.00
" " ".....	per 100 15.00
" " ".....	per 50 8.00
" " ".....	per 12 2.25
From 3-inch pots.....	per 100 18.00
" " ".....	per 50 10.00
" " ".....	per 12 2.50

Money Order Office, **EDWIN LONSDALE,**
Station H, Phila. Wyndmoor, Chestnut Hill, Phila.

Now Ready—Rose Plants.

Cool Grown and Vigorous.

	Per 100	Per 1000
BRIDESMAID, 2 1/2-in. pots.....	\$3.00	\$25.00
METEOR, 2 1/2-inch pots.....	3.00	25.00
BRIDES, 2 1/2-inch pots.....	3.00	25.00
PERLE, 2 1/2-inch pots.....	3.00	25.00

READ THIS UNSOLICITED TESTIMONIAL.

MESSRS. BRANT & NOE:
Gentlemen—Rose plants received in fine condition, and the stock is more than satisfactory. I have never received such stock before. Thanks for the fine stock and extras. Have planted them and expect good results. Yours truly, D. B. WOODRUFF, Macon, Ga.

BRANT & NOE, Forest Glen, Ill.

CLEMATIS

Jackmanni, and all large flowering varieties, \$17 per 100

Rhododendrons, Snowball, H. P. Roses, Azaleas, Tree Roses, Pæonia Chinensis, Tree Pæonia, Double Flowering Crataegus vars., Lilacs, Hydrangea, Magnolia with buds, Etc., Etc.

ASK FOR PRICES.

L. C. BOBBINK, RUTHERFORD, N. J.
Branch of the Horticultural Co., Boskoop, Holland.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

SWEET PEAS

The choicest and most complete collection in the world. By keeping **Purity** and **High Quality** our first consideration, rather than low prices, we have become recognized as **HEADQUARTERS** for SWEET PEAS. In the following list we enumerate our **Unequaled Collection of Ninety-four named varieties.**

BLANCHE BURPEE SWEET PEA.

This superb new white variety must be regarded as the finest of all the white Sweet Peas, beating even the famous "Emily Henderson" in form and size, and is of a pure white color. It was raised by Mr. Eckford, and was named **BLANCHE BURPEE**. Mr. Burpee is an eminent American horticulturist, and has taken great interest in Mr. Eckford's fine Sweet Peas, and is introducing them to a considerable extent in the United States. I have repeatedly seen the variety in flower at Wem and at various exhibitions, and compared it with existing varieties, and in its grand, well-formed, stout standard its great excellence is particularly seen.—*From THE GARDENERS' MAGAZINE, London, England, November 24, 1894, prior to introduction in 1895 of Eckford's New Giant White.*—**BLANCHE BURPEE**. Received an **Award of Merit R. H. S., London, 1895.**

Wholesale Prices:—Per oz. 30 cts.; $\frac{1}{4}$ lb \$1.00; per lb \$4.00.



ECKFORD'S
New Giant White
Sweet Pea.
BLANCHE BURPEE.

PER LB.		PER LB.		PER LB.	
Adonis, ...	\$0 40	Igneae, ...	<i>Sold out.</i>	Queen of the Isles, ...	\$0 40
Alba Magnifica, ...	45	Imperial Blue (Grand Blue), ...	\$0 35	RAMONA (\$7.50 per 100 pkts.)	
Apple Blossom, ...	50	Indigo King, ...	40	RISING SUN, ...	60
BLANCHE BURPEE, ...	4 00	Invincible Carmine, ...	50	ROYAL ROBE, ...	75
Blanche Ferry, ...	40	Invincible Red Striped, ...	40	Scarlet Invincible, ...	40
Blushing Beauty, ...	60	Isa Eckford, ...	50	Scarlet Striped, ...	40
Boreatton, ...	50	JUANITA (\$7.50 per 100 pkts.)		Splendid Lilac, ...	45
Bronze King, ...	1 25	KATHARINE TRACY (oz. 30 cts.)		Splendour, ...	50
Bronze Prince, ...	50	LADY BEACONSFIELD, ...	75	STANLEY, ...	1 20
Butterfly, ...	50	Lady Penzance, ...	75	The Queen, ...	50
Captain Clarke, ...	40	Laxton's Invincible Blue, ...	55	The Senator, ...	40
Captain of the Blues, ...	40	Lemon Queen, ...	50	Venus, ...	50
CARMEN SYLVA, ...	60	Light Blue and Purple, ...	35	Vesuvius, ...	40
Countess of Radnor, ...	55	LOTTIE ECKFORD (New Strain), ...	80	Violet Queen, ...	60
Crown Princess of Prussia, ...	35	MADAME CARNOT, ...	60	Waverly, ...	50
CUPID (\$12.50 per 100 pkts.)		METEOR, ...	2 00	White (Pure), ...	40
(Half size, \$7.50 per 100 pkts.)		Miss Hunt, ...	60		
DAYBREAK (\$7.50 per 100 pkts.)		Monarch, ...	50	BURPEE'S BEST MIXED, ...	2 00
Dorothy Tennant, ...	55	Mrs. Eckford, ...	60	"1896" SPECIAL SUPERFINE	
Duchess of Edinburgh (Antennae		Mrs. Gladstone, ...	45	MIXED, ...	1 25
Tints), ...	40	MRS. JOS. CHAMBERLAIN, ...	2 00	Eckford's Gilt-Edge, or Surpass-	
DUCHESS OF YORK, ...	2 00	Mrs. Sankey, ...	50	ing Mixture, ...	1 00
Duke of Clarence, ...	50	NOVELTY, ...	2 00	Eckford's New Mixed, ...	60
DUKE OF YORK, ...	2 00	ODDITY (\$7.50 per 100 pkts.)		All New Sweet Peas, Mixed (Our	
Eckford's Delight, ...	40	Orange Prince, ...	45	Own Mixture), ...	50
ELIZA ECKFORD, ...	3 50	OID, ...	60	Good Mixed, ...	40
Emily Eckford, ...	60	Painted Lady, ...	35	Cheap Mixed, ...	25
Emily Henderson, ...	45	PEACH BLOSSOM, ...	60		
Empress of India, ...	50	Primrose, ...	50	DOUBLE SWEET PEAS.	PER OZ.
ETNA, ...	90	Princess Beatrice, ...	45	Double Apple Blossom, ...	\$0 50
EXTRA EARLY BLANCHE		Princess Louise, ...	50	" Boreatton, ...	50
FERRY (oz. 30 cts.)		PRINCESS MAY, ...	60	" Butterfly, ...	50
Fairy Queen, ...	40	Princess of Wales, ...	40	" Duke of Clarence, ...	40
Firefly, ...	75	Princess Victoria, ...	60	" Senator, ...	50
Gaiety, ...	60	Purple Prince, ...	50	" Splendour, ...	50
GRAY FRIAR (\$7.50 per 100 pkts.)		Purple Striped, ...	40	" White, ...	50
Her Majesty, ...	50	Queen of England, ...	40	Best Double, Mixed, ...	35

In the list above the **SWEET PEAS IN CAPITALS** are either Novelties of 1896 or now first offered by weight, while the varieties in **bold-faced type** are also specially recommended. Each variety is pure and true to name,—vastly superior to the "Cheap Seed" now so largely grown, without proper care in the constant selection that is absolutely necessary to maintain first-class strains.

BURPEE'S BLUE LIST for Florists and Market Gardeners is mailed **FREE** on application. If not already received, write **TO=DAY**. It offers only the **Best Seeds that Grow** and the prices are low. There are no better Seeds than **BURPEE'S!** Have you read **THE FARM ANNUAL FOR 1896?**

W. ATLEE BURPEE & CO., Philadelphia, Pa.

WE HANDLE
ONLY

Seed

that are especially grown for a critical Market Garden and Florists' trade. There are tons of seeds grown to sell cheap. You don't want them if your living or your satisfaction in life depends on the result. In our

GARDEN AND FARM ANNUAL FOR 1896

you will notice the illustrations are from direct photographs. They stand for Truth and Honesty and Honest Seeds back them up at Honest Prices. It is full of meat, written for business and to business buyers it is sent free. We also issue a Wholesale Quarterly for Market Gardeners and Florists.

JOHNSON & STOKES, 217 & 219 Market Street, PHILADELPHIA.



WE ARE FIGHTING
COMPETITION, AND IT IS YOUR GAIN TO ORDER
NOW THE FOLLOWING WHILE IT LASTS:

ASTERS	Trade Pkt.	Oz.
Victoria, separate colors.....	50	\$3 50
" Victoria mixed.....	50	3.00
" Branching white.....	25	2.00
" Branching white & rose mixed.....	25	2.00
" Comet, mixed.....	25	2.00
" Queen's Market, white or mxd.....	15	.50
" Truffaut's Perfection, sep. col.....	25	2.00
" Truffaut's mixed.....	25	1.25

Wm. Elliott & Sons, New York.

ASTER SEED.

SEMPLE'S STRAIN of Asters, the best and only strain for florists to make money out of the cut flowers. Large flowers like chrysanthemums, long stems and exquisite colors, excellent for growing inside in summer. Flowers bringing from \$1.50 to \$3.00 per dozen. Read the following from Randolph & McClements:

PITTSBURG, January 14th, 1896.
MR. SEMPLE, Bellevue, Pa.—"The Aster Seed purchased from you produced the finest flowers I ever saw. Under glass in summer they will make the best summer flower we can get, producing flowers 4 to 5 inches in diameter."
Yours truly,
RANDOLPH & McCLEMENTS.
Mixed Seed, three kinds, Pink, White and Lavender. Separate colors all sold.
Seed all grown in 1895.

JAMES SEMPLE, Box 2, BELLEVUE, Allegheny Co., PA.

NORTHRUP, BRASLAN, GOODWIN CO.

Being **GROWERS** we are in a position to supply **Seeds of First-Class Quality** and to make **specialty low prices**. A trial will convince those who have not yet found this out.

NORTHRUP, BRASLAN, GOODWIN CO.

20 to 28 Hennepin Ave., MINNEAPOLIS, MINN.

55, 57 & 59 N. Jefferson St., CHICAGO.

WE ARE HEADQUARTERS ON
BULBS FOR FORCING,
FLOWER SEEDS FOR FLORISTS
ENGLISH MUSHROOM SPAWN.

Special prices on application.

JOHN GARDINER & CO., Seedsmen,
631 Market St., Philadelphia, Pa.

WE SELL SEEDS

Florists' Flower Seeds and Sweet Peas
a specialty. Highest quality.
Special prices.

WEEBER & DON,

Seed Merchants and Growers,
114 Chambers Street, NEW YORK.

TELEGRAPH CODE
OF THE
AM. SEED TRADE ASSOCIATION
\$2.00,

In either stiff or flexible cover.

ADDRESS ORDERS TO
AMERICAN FLORIST CO.,
P. O. Drawer 164. CHICAGO.

SWAINSONA.

2½-inch pots \$4.00 per 100
Also 2½, 3 and 4-inch, cheap for cash, or will
exchange for small ferns, palms, basket and vase
plants. What have you to trade for good strong
plants? **FRED J. KING, Seedsmen and Florist,**
220 Madison Street, OTTAWA, ILL.

EXTRA CHOICE FLOWER SEEDS.

List free on application.

FRED. ROEMER, SEED GROWER,
QUEDLINBURG, GERMANY.

FLOWER SEEDS FOR PRESENT SOWING.

Trade pkt. Oz.
Ampelopsis Veitchii 10 \$.20
Alyssum, Sweet..... .05 .20

ASTERS.

Victoria, white, pink, crimson, light blue,	25	2.50
dark blue, each.....	25	2.00
Same, all colors mixed.....	25	2.00
Truffaut's, separate colors.....	25	2.00
All colors mixed.....	25	2.00
White Branching.....	25	2.50
Giant Comet, white.....	25	2.50
Cosmos, early flowering hybrids, new.....	20	
Daisy, Vaughan's Mammoth mixed.....	25	
Mammoth white.....	25	
Extra choice mixed.....	25	
Lobelia Speciosa, running.....	10	1.00
Crystal Palace Compacta.....	25	3.00
White Gem.....	25	
Golden Gem, yellow leaves.....	25	
Musk Plant.....	10	
Mignonette Machet.....	10	.50
Musa Ensete, 100 seeds, \$1.50.....		
Pansy, Giant mixed.....	50	5.00
Vaughan's International Mixed.....	50	10.00
Trimardeur, mixed.....	10	2.00
Petunia Hybrida, best dbl, large flower.....	1.00	
Best large flowering single.....	1.00	
Phlox, Snowball.....	25	2.50
Fireball.....	25	2.50
Stocks, large flowering Ten Weeks, white,		
pink, crimson, light blue, dark blue,		
canary.....	25	2.50
Best mixed.....	25	
Snowflake for forcing.....	50	10.00
Verbena hybrida, fine mixed.....	25	.75
Extra choice mixed.....	25	1.50
Mammoth, mixed.....	25	2.00
Fordhook Mammoth.....	25	
"Vaughan's Best" mixture is better than		
any.....	25	3.00
White.....	25	1.50
Deliance, scarlet.....	25	2.00
Striped.....	25	2.00
Purple.....	10	1.00
Vinca rosea, alba, alba pura or mixed, each.....	10	.50

VAUGHAN'S SEED STORE,

NEW YORK: 26 Barclay St. CHICAGO: P. O. Box 688.

Choicest Florists' Seeds

And a full line of **Spring Bulbs**, offered in our New 1896 Trade List, free on application.

Florists' Supplies

In largest assortment and best quality.
Illustrated Wholesale List free.

August Rölker & Sons

136-138 W. 24th St., New York.

Mammoth Verbenas.

New, large-flowered, very fine quality.
Per Ounce, \$1.50.

CHOICE FLOWER SEEDS For Florists.

Price List free on application.

HERRMANN'S SEED STORE,

413 E. 34TH STREET,
Near Long Island Ferry, NEW YORK.

SEMPLE ASTER

Pink. Choice Seed.

1-4 Oz. 50 cts. Oz. \$1.50.

GEO. ARNOLD, Jr., P. O. Box 576,
Rochester, N. Y.

PANSY SEED.

THE JENNINGS STRAIN OF FINEST

AMERICAN CROWN PANSIES,

In pkt. of 2500 seeds. \$1.00, very finest mixed, all colors.

Large flowering plants all sold.

E. B. JENNINGS, Pansy Grower,
Lock Box 254, Southport, Conn.

Louisville, Ky.

The complaint about good stock being a scarcity in the market is general and is heard on all sides. The growers, of course, blame it all on the weather, which has been such as to preclude all possibility of growing choice flowers. This has been a great drawback and inconvenience to the retailers, for business, despite their expectations, has been rather brisk during the month of January.

The death of Judge Jackson, closely followed by that of the mayor of the city, has furnished the florists with plenty of work in the way of funeral designs. Among others, F. Haupt turned out some large and elaborate pieces. Nor was there any standstill in "society events," which have kept the florists hustling.

A thing seldom heard of in the northern states is normal school graduating exercises in January. Such an event, however, took place here during the past month. The Library hall was handsomely decorated for the occasion and numerous flowers in the shape of bouquets, baskets, etc. were presented to the graduates.

Messrs. Lewis & Gilbert, the 4th avenue florists, are about to build two more houses, one 130x20 for carnations and the other one 100x12 for violets. This firm has met with exceptional success during the comparatively short time they have been in business.

Miss Maggie J. Gorman has removed to 227 West Jefferson street, and reports business quite encouraging.

The finest paper white grandiflora grown in this section comes from Mr. Wm. Mann's greenhouses. These are exceptionally fine and well grown.

Homo.

Greenhouse Building.

Walden, N. Y., E. Koffman, 7 commercial houses, each 120 feet in length.

Quidnick, R. I., J. H. Cushing, one house.

Storrs Agricultural Station, Conn., one house.

Wakefield, Mass., I. G. Floyd, one house.

NOVELTIES

For FLORISTS and SEEDSMEN.

ROSES—White Rambler, Golden Rambler, New Climbing Meteor and Carmine Pillar.

CRIMSON RAMBLER—\$6.00 per 100. Field grown, \$5.00 per 100. Extra fine plants, 3 to 5 feet high, \$25 per 100. Other roses at low prices. Send for list.

SPIRÆA ANTHONY WATERER—The Crimson Spirea. The Ideal Pot Plant for Florists. Introduced last year at \$2.00 per plant, our price to-day \$3.00 per 100.

BULBS—Chinese Sacred Lilies, \$4.00 per 100. Lilium Candidum, fine bulbs, \$2.00 per 100. L. Longiflorum, \$2.00 per 100. L. Speciosum Album, \$6.00 per 100. L. Spec. Rubrum, \$5.00 per 100. L. Auratum, \$5.00 per 100. All other bulbs.

CANNAS—12 New Cannas, our own raising, \$5.00, warranted satisfactory or money refunded. Crozy's Cannas of '94, 20 cts. each; set of 20, \$3.00. 50 named cannas, 50 sorts for \$5. French Cannas, \$12 per 1000.

DAHLIAS—All the latest introductions. Mrs. Pearl the white Cactus Dahlia, \$10 per 100. Nymphaea, the pink cut flower Dahlia, \$7 per 100. Mixed Dahlias, \$4 per 100.

IMPERIAL MORNING GLORIES—Double and single flowers, 6 inches. Seed, \$3, \$10, \$20 and \$40 per pound.

FANCY FLOWER POTS AND JARDINIÈRES—Largest assortment in the country. Send for catalogue.

A. BLANC & CO.,
PHILADELPHIA, PA.

Zirngiebel Asters and Pansies

are without doubt the best in cultivation.

ZIRNGIEBEL'S WHITE, for early.

SEMPLE'S WHITE and **SEMPLE'S ROSE**, for late. Also Early Dwarf White Stock. All in Trade Packets, at one dollar each.

DENYS ZIRNGIEBEL, Needham, Mass.

PROFITABLE SWEET PEAS.

FROM careful personal inspection of all the new and old varieties in the famous pea growing districts in California, and from actual selling qualities shown in the San Francisco Flower Market—the largest in the world for this flower—we find the following seven kinds, for size, stems, prolific habits and other most desirable qualities unequalled. They comprise the leading salable clear colors which are always appreciated. Fill seven vases each with 100 sprays of these, and set them in a row in your window, and you need fear no competition in your trade on this flower.

BLUSHING BEAUTY, clear Daybreak pink.

HER MAJESTY, pure solid rose.

FIREFLY, bright fiery scarlet.

EMILY HENDERSON, best florists' white.

COUNTRESS OF RADNOR, soft lavender.

MRS. ECKFORD, largest good yellow.

BLANCHE FERRY, early pink and white.

PRICES.

1 ounce each, 7 ounces, postpaid, 35 cts.

2 ounces each, 14 ounces, postpaid, 60 cts.

1-4 pound each (¼ lbs.), postpaid, \$1.00.

YOUR CHOICE, prepaid, ounce 5 cts., 1-4 lb. 20 cts.; 1 lb. 50 cts.

EMILY HENDERSON, lb. 40 cts.; 3 lbs for \$1.00.

AMERICA, the new scarlet and white, pkt. 15 cts., 5 pkts. for 60 cts.

CUPID, dwarf white, pkt. 25 cts.



NEW YORK: VAUGHAN'S SEED STORE, CHICAGO:
26 Barclay St. 84-86 Randolph St.

That Johnson & Stokes Catalogue Cover

(See FLORIST for Feb. 8, page 708), was made (the fourth page direct from the vegetables) by the true **COLORITYPE PROCESS**, which, as thus applied, is practical.

Photography in Colors.

It is the ideal method for Catalogue covers, plates, show cards, etc.; it will work beautifully on anything that has color and can hold still. Of course there are imitations (especially in Chicago) but the only really practical and successful method, by arrangement with the Coloritype Company,

We Control Exclusively in America

for all Horticultural uses. Write us for detail on this, and on half-tone cuts like those used by Johnson & Stokes, remembering, too, that we produce the best catalogues in the country.

J. HORACE McFARLAND COMPANY,

Printers for Nurserymen, Seedsmen, Florists,

HARRISBURG, PA.

NOVELTIES FOR 1896

IN

Roses, Carnations and Chrysanthemums.

My new Trade List, describing all that are desirable in New and Standard varieties, NOW READY.

JOHN N. MAY, Summit, New Jersey.

ANOTHER CATALOGUE

—OF—

ROOTED CUTTINGS

NOW READY.

It contains specially selected lists, well printed, nicely illustrated, free.

DAN'L B. LONG.

JOBBER FLORIST AND GROWERS' AGENT.
BUFFALO, N. Y.

The Oaks Greenhouse Co., Jackson, Mich.

Offer the following: 100 1000
Primula Jap., nice 2½-inch pot plants. \$2.50 \$
Rooted Cuttings Carnations, 3 varieties. 1.00
Begonia Metallea, 3½"..... 5.00
Rooted cuttings Chrysanthemums, standard varieties..... 1.00 9.00
R. C. Marguerite Daisy, white and yellow.... 1.00 9.00
R. C. Vinca variegata 1.00 9.00
R. C. Carnations, Daybreak, McGowan, Portland, etc. 1.25 10.00
R. C., a quantity of La France Roses 1.50 12.00
If to be sent by mail add 10c per 100. Cash with order.

GARDENER'S SEED AND PLANT GUIDE

From experience, tells about gardening for profit or pleasure and about The Flower and Vegetable Garden. Postpaid 5c. JNO. BAUSCHER, JR., Box 463 Freeport, Ill.

Ismene Calantha,

OR WHITE AMARYLLIS.

EXTRA SELECT BULBS.

Very profitable for forcing or outdoor blooming.

\$2 per dozen; \$15 per 100; \$125 per 1000.

Also SAGOS, with from 6 to 36 leaves. Will exchange for Tuberous Begonias, Gloxinias and double white Primulas.

L. HEINL, Terre Haute, Ind.

Palms & Ferns.

Our 17 collection, 3 & 4-inch \$3.34 for \$5; 10 & 4 & 5-inch \$3.50, 20 for \$6; 6-inch for \$5. All good selected varieties. Special sale: Choice FERNS, \$5.00 and \$6.00.

ROSES AND GERANIUMS, LABELS, MOSS, ETC.

WILLIAMS & SONS CO., Batavia, Ill.

Always mention the American Florist when writing to advertisers,

**Rooted
Cuttings.**

CARNATIONS.

**Rooted
Cuttings.**

If PRIZES WON are an indication of where you should buy your Carnation plants,

LOOK AT THIS LIST OF AWARDS:

BY THE NEW YORK FLORISTS' CLUB.

The Dean Silver Cup for best display, 1st prize first day's competition, Nov., 1895.
The New York Florists' Club Silver Cup for best display, 1st prize 2nd day's competition, Nov., 1895.
First Prize for best pink, for Bridesmaid.
First Prize for best crimson, for Meteor.
All above at Madison Square Garden, Nov., 1895.
Certificate of Merit for Storm King.
First Prize for 50 blooms white, for Storm King.
First Prize for 50 blooms red, for Stuart.
First Prize for Collection not less than 10 blooms each sort.

The above four at Grand Central Palace, Nov. 6, 1893.

BY THE MASS. HORTICULTURAL SOCIETY.

Certificate of Merit for Storm King, March, 1895.
Complimentary Notice for Bridesmaid, Dec., 1894.
Complimentary Notice for Meteor, Dec., 1894.

Honorable Mention for Bridesmaid, Feb., 1896.
Honorable Mention for Meteor, Feb., 1896.
First Prize for best Display Carnations, Feb., 1896.
Gratuity for Display of Carnations, Dec., 1894.

BY THE PENNA. HORTICULTURAL SOCIETY.

Certificate of Merit for Meteor.
Certificate of Merit for Vase of Seedlings.
Both First and Second Prizes for best vase of 100 blooms, any variety.
First prize to Storm King.
Second prize to Bridesmaid. All in January, 1896.

BY THE AMERICAN CARNATION SOCIETY, at Boston, Feb., 21, 1895.

Certificate of Merit for Storm King.
Certificate of Merit Meteor.
First Prize for best 50 white for Storm King.
First Prize for best 50 crimson for Meteor.
First Prize for best 12 Uncle John.

IF BUSINESS DONE be an indication of where you can be best and most satisfactorily served, **read this statement:** 2000 Commercial Florists buy Carnation Cuttings from our establishment. During season of 1895, we sold and shipped 250,000 Carnation Cuttings and Plants. Since our business was established in 1893, we have sold and shipped nearly 500,000 carnation plants and cuttings. We have already placed orders for One Hundred Thousand Plants and Cuttings for this season's delivery. We aim to make make our total sales of Carnation plants and cuttings amount to three-fourths of a million at the close of this season.

All florists who desire to purchase really First-Class stock will be conscientiously served if they assist us by favoring us with their orders.

REMEMBER—We do not try to grow or sell cheap stock. Fine, strong, healthy plants for our customers is our motto. We will give you full value for your money. We will please our customers.

OUR CATALOGUE AND TRADE LIST IS NOW READY, AND WE WILL SEND THEM UPON RECEIPT OF YOUR ADDRESS.

C. W. WARD, Manager.

THE COTTAGE GARDENS, Queens, L. I., N. Y.

Long Island Railroad Time Table.

All trains leave via Long Island Ferry, foot of East 34th Street, which is reached by the **42d Street and Boulevard Cars.**

Go **one block below Grand Central Palace** and take **Green** or **White car going East.** You can reach **Queens** in 50 minutes from the Grand Central Palace.

TRAINS LEAVE FOOT E. 34th STREET (via boat) FOR
QUEENS AS BELOW:

6:30 A. M.
8:00 "
8:50 "
10:50 "
12:50 P. M.
1:50 "
3:20 "
4:20 "

**ARRIVING AT QUEENS ABOUT
40 MINUTES LATER.**

RETURNING.

LEAVE QUEENS FOR LONG ISLAND CITY:

6:55 A. M.	3:23 P. M.
7:20 "	4:30 "
7:54 "	5:04 "
8:25 "	5:23 "
9:21 "	6:17 "
9:52 "	7:05 "
11:14 P. M.	8:50 "
12:41 "	10:50 "

Every florist visiting New York City is cordially invited to visit **THE COTTAGE GARDENS.**

During Thursday, Friday and Saturday, special wagons will meet each train at Queens and convey visitors to and from the greenhouses.

On **SATURDAY** all remaining in the city are specially invited to take the 8:50 A. M. train which will be met with wagons and the following route pursued: First to The Cottage Gardens Greenhouses, thence to C. H. Allen, Floral Park, thence to John H. Taylor, F. H. Storm, Wm. Bell and other Bayside florists, thence by train via Flushing where the places of Jno. Henderson Co., H. C. Rath and other Flushing growers may be visited.

Everybody, without exception, will be cordially welcomed by

C. W. WARD.

A NEW BRAND OF CARNATION JUICE (first brew) WILL BE OPENED, AND ALL MEMBERS OF THE CRAFT WILL BE EXPECTED TO PASS UPON THE ADVISABILITY OF ITS INTRODUCTION AS A NOVELTY.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

CARNATIONS.....

DELLA FOX and ANNIE H. LONSDALE

invite you to call at their home and see them whilst you are at the American Carnation Society at New York. It will pay any grower to spend the time to visit these sterling varieties; there is nothing like them under cultivation in this country. You will find them the best investment you ever made. Not croppers, but always in bloom, from Aug. to the following July.

COME AND SEE THEM.

One Hundred Dollars in Cash Premiums will be offered for the best 50 blooms of **DELLA FOX** in the fall of 1896—divided in the four largest cities in the U. S.

ROOTED CUTTINGS. Price: Less than 100, \$12.00 per 100. 100 @ \$10.00 per 100. 1000 @ \$75.00 per 1000. **READY MARCH 1st, 1896.** No orders will be booked unless cash accompanies order or satisfactory reference given. Sample cut blooms will be sent to florists' clubs only on application.

MYERS & SAMTMAN, Wyndmoor, Chestnut Hill, Phila.

Trains leave Reading Terminal 12th and Market Streets: A. M. 7:10, 7:40, 8:10, 8:40, 9:10, 9:40, 10:10, 11:10. P. M. 12:10, 1:10, 2:10, 3:10, 3:40, 4:10, 4:40. And returning from Wyndmoor every 30 minutes.

Carnation Orders

BOOKED NOW.

Good, clean, well-rooted stock. **NO RUST.**

	Per 100	Per 1000
BRIDESMAID.....	\$5.00	\$10.00
METEOR.....	5.00	40.00
STORM KING.....	5.00	40.00
UNCLE JOHN.....	3.00	25.00
STUART.....	3.00	25.00
E. A. WOOD.....	3.00	25.00
GOLDFINCH.....	4.00	35.00
WM. SCOTT.....	2.50	20.00
DIAM. ALBERTINI.....	3.00	25.00
DAYBREAK.....	3.00	25.00

CHRYSANTHEMUMS.

	Each	1 doz.	100
Mrs. W. C. Egan, new (ready March 1).....	\$.50	\$5.00	\$35.00
Tippecanoe, new (ready March 1).....	.50	5.00	35.00
Amaranth, new (ready March 1).....	.50	5.00	35.00
Mr. E. M. Bigelow.....	1.00	8.00	
Mrs. S. T. Murdock.....	1.00	8.00	
Oakland.....	1.00	8.00	
Major Bonaffon and other choice older standard sorts.....	.75	5.00	

Send for descriptive trade list.

F. DORNER & SON,
LA FAYETTE, IND.

The Crack Carnations:



SCOTT, ALBERTINI,
DAYBREAK, MCGOWAN.

Selected Cuttings, well rooted in sand and soil, delivery February 15th and later, \$2.00 per 100; \$15.00 per 1000.

Send your order at once, with cash, to get these figures . . .

ALEX. McBRIDE,
ALPLAUS, N. Y.

50,000 CARNATIONS ROOTED CUTTINGS
Now Ready

Positively clear of RUST. Send for price list.

William Swayne,
P. O. Box 226. KENNETT SQUARE, PA.

THE BEST
WHITE ALASKA **PINK SCOTT**
CARNATIONS
HEALTHY STOCK NOW READY.
C. PESENECKER & SON, 290
JERSEY CITY, N. Y. Kilpatrick St.

CARNATIONS—Rooted Cuttings.

STORM KING, from sand or soil,	\$5.00 per 100; \$40.00 per 1000
BRIDESMAID, “ “	5.00 “ 40.00 “
METEOR, “ “	5.00 “ 40.00 “
SCOTT, “ “	2.00 “ 15.00 “
MCGOWAN, “ “	2.00 “ 15.00 “
ALASKA, “ “	5.00 “ 40.00 “

CASH WITH ORDER, PLEASE.

CHAS. H. ALLEN, Floral Park, N. Y.

Carnations, Rooted Cuttings,

FROM FINE, HEALTHY STOCK PLANTS.

White—ALASKA, STORM KING, UNCLE JOHN, (no rust) MCGOWAN.

Pink—ROSE QUEEN, PEACHBLOW, ALBERTINI, SCOTT, DAYBREAK, CARLEDGE, Etc.

Scarlet—HECTOR, PORTIA, CORSAIR.

Crimson—METEOR, PRIDE OF KENNETT.

Variegated—H. KELLER, MINNIE COOK, CHESTER PRIDE.

Yellow—DEAN HOLE, BOUTON D'OR, BUTTERCUP, Etc.

All well rooted and sure to give satisfaction. Send for price list.

H. WEBER & SONS, Floral Park, Oakland, Md.

CARNATIONS! CARNATIONS

The two leading varieties

Alaska and Minnie Cook.

Buy from the originator and procure genuine stock. CUTTINGS NOW READY.

— ALSO —

ROSE QUEEN, DAYBREAK, WM. SCOTT,
VAN LEEUWEN, TIDAL WAVE, Etc.

Write for price list.

MCCORNAC & CO., Paterson, N. J.
Successors to H. E. CHITTY.

Eldorado, Kitty Clover

The best **YELLOW CARNATIONS** to grow for profit. **ROOTED CUTTINGS** now ready, @ \$5.00 per 100. Also 30,000 strong rooted cuttings of suitable kinds for summer bloom.

LADY CAMPBELL VIOLETS, rooted runners, @ \$1.00 per 100; \$8.00 per 1000.

W. R. SHELMIER,
Chester Co., AVONDALE, PA.

WHEN writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

Orders solicited for **ROOTED CUTTINGS.**

KOHINOOR takes the lead.

Other Novelties of the Standard sorts at standard prices. All healthy and strong.

C. J. PENNOCK,
The Pines. KENNETT SQUARE, Chester Co., PA.

CARNATIONS PEACHBLOW.

Rooted Cuttings ready April 1st, '96, \$5.00 per 100, and \$45.00 per 1000.

Book your orders early and be sure that you will get them. Sample blooms sent free.

ESTATE OF M. A. HUNT, Terre Haute, Ind.

CARNATIONS—Rooted Cuttings.

DAYBREAK, TIDAL WAVE, SILVER SPRAY, LIZZIE MCGOWAN, LOUISE SINGLER, \$2.00 per 100; \$15.00 per 1000.

GERANIUMS—Rooted Cuttings.

\$1.50 per hundred. 2-Inch pots, \$2.50 per hundred.

C. LENGENFELDER,
Berteau and Western Ave., CHICAGO.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

De Longpre's Flower Show.

A flower show without any water or dampness, with no danger of cuttings being stolen and in which all the specimens are for sale is what has been going on in Philadelphia. The flowers were painted by Paul de Longpre, the acknowledged master in floral water color work, yet they are so natural one can hardly believe them paintings only.

Mr. de Longpre's 'mums are up to date especially in price. One, "A Handful of chrysanthemums," is figured at \$175, and others are about the same. Just think of sticking some "Geraniums in a Blue Mug" and taking \$100 for the outfit! "A Box of Pansies" not a very big box either claims \$150, while a "sold" card appeared on a frame of "Snowballs and Bumble Bees" at \$200. It is quite evident that we poor florists and printers are totally outclassed, unless we could gather in some water-color seeds, or plant some de Longpre cuttings.

The artist evidently loves his work and does not, either, as do some, despise florists' productions. He sees and fastens the glorious American Beauty into a frame, as well as appreciates dendrobiums and lilies. Nasturtiums and Easter lilies are as exquisitely shown as daisies, cherry blossoms and wild carrot. There is a perfection of detail and exact truth to nature in the work that charms and pleases the critic. The fuzzy impressionism is absent and de Longpre sees, apparently, all the points which any of us appreciate, adding the art which makes the picture.

J. H. McF.

SLOATSBURG, N. Y.—A rain storm of unusual severity on the 6th inst. caused the Ramapo River to overflow its banks. The water rose to such a depth as to extinguish the fires and flood the green-houses of W. F. Allen at this place.

Here's a Snap.

ROSES BRIDE, BRIDESMAID, LA FRANCE, WHITE LA FRANCE, \$2.00 per 100; \$20.00 per 1000.

Geraniums Best market varieties, \$2.00 per 100. HAPPY THOUGHT, MT. SNOW and BRONZE varieties, \$3.00 per 100. All 2½-inch pots.

Chrysanthemums KATE BROWN, L. CANNING, THE QUEEN, NIVEUS, IVORY, and other good cut flower varieties, \$2.00 per 100. My selection, \$15.00 per 1000; 2-inch pots.

5000 MRS. FISHER CARNATIONS, in 2-in. pots, \$20.00 per 1000.

OTAHEITE ORANGE, \$3 per 100; \$25 per 1000.

Cash or C. O. D. please.

GEO. A. MEAD,

Maple Grove Greenhouses, SPRINGFIELD, OHIO.
Mention American Florist.

Farquhar Violets.

From 2½ in pots - - - - \$5 per 100
California in pots in bud - - - - \$4 per 100
Campbell Runners rooted - - - - \$1 per 100

C. E. WELD,

VIOLET SPECIALIST. ROSLINDALE, MASS.

GREEN AS GRASS.

Verbenas rooted cutting in eight separate colors,
Per 1000 \$7.50, per 100 80c.

For quality of stock see Rochester notes in AMERICAN FLORIST, issue of October 5th, 1895.

FRANK S. PAYNE,

Cash with Order WHOLESALE FLORIST.
Barnard Crossing, N. Y.

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PALM SEEDS

WE GUARANTEE full germinating power & replace seeds non-germinating Per 1000 Per 5000 Per 10,000

Cocos Weddelliana . . .	\$12.00	\$55.00	\$100.00
Areca lutescens . . .	10.00	47.50	90.00
Areca rubra . . .	10.00	47.50	90.00
Geonoma gracilis . . .	12.00	55.00	100.00
Geonoma Scholtiana . . .	15.00	65.00	120.00
Latania borbonica . . .	2.75	12.00	20.00
Per 100 Per 1000 Per 5000			
Corypha australis . . .	.75	5.00	22.50
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Pandanus Utilis

In excellent condition.

\$1.50 per 100, \$12.50 per 1,000, \$50.00 per 5,000.

Chas. Schwake, 404 E. 34th St., New York.

6,000 BEGONIA NIVEA,

AT REDUCED PRICES.

The New Everblooming Apple Blossom Begonia. We have a large stock of this grand winter blooming and summer bedding plant; it being covered with elegant panicles the whole year round, making it a valuable market plant. In color it is of a delicate pink when in bud, expanding through lighter shades to snowy whiteness when in full flower, giving it an apple-blossom appearance, that is unique, and what the ladies call "just lovely."

In order to make room, and to place in reach of all, we offer 6,000 plants only at reduced rates, if ordered before March 1st, 1896, after which date, prices will be advanced. It is a most vigorous grower, propagates easily, and has come to stay. The plants are well branched, well established and first-class in all respects, and sure to give satisfaction. Up to date florists should secure some of this stock for their floral work.

We guarantee safe arrival in good condition, and extras added to all orders of one dollar and upwards by express. Cash with the order. 50 plants at 100 rates.

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From 2½-inch pots . . .	.15	.10	\$.75 \$ 4.00
" 2½-in. pots, ex. strong plants . . .	.20	.15	1.00 6.00
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Rooted Cuttings to order, \$20.00 per 1000 . . .			2.50
Strong stems with leaves, buds and bloom, . . .			1.00
Large panicles, ships well . . .			.50

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New and Rare Plants for the Stove, Greenhouse and Conservatory.

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Send for illustrated catalogue.

Bulbous Begonias.

LAING'S STRAIN. In separate colors.

Lilium Longiflorum, Tuberose, Spiræas, etc. Now on hand.

Ask for prices.

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reliable goods are offered. We offer **CARNATION CUTTINGS** free from disease at following prices:

	Per 100	Per 1000
Ivory	\$10.00	Thos. Cartledge. \$2.00
Della Fox	10.00	Helen Keller 2.00
McGowan	2.00	Lorenze Thompson 5.00
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And twenty-five other varieties at lowest prices.

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Orders taken now for Spring and August delivery of the following varieties

germinating power 75 to 90 per cent

CROP '95 & '96.

	100	1000	5000
Areca lutescens	\$1.25	\$10.00	\$45.00
Cocos Weddelliana	1.25	10.00	47.50
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Now on hand, fresh stock:

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IN BEST VARIETIES.

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CHRYSANTHEMUMS.
SMILAX.
VIOLETS.

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Certificate of Chrysanthemum Society of America, November 2d, 1895.
First Premium for best Pink American Seedling, Pennsylvania Horticultural Society Exhibition, November 5th, 1895.

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See Garden and Forest, - Nov. 20th, page 465.
" Florists' Exchange, - Nov. 23d, " 1144.
" American Gardening, - Dec. 14th, " 415.
" American Florist, - Jan. 25th, " 652.
" Gardening, - - - Feb. 1st, " 151.

It is the **EARLIEST LARGE CHRYSANTHEMUM GROWN**. Has been cut as early as Oct. 15th; flowers measuring 11 inches in diameter. A good strong healthy grower, stiff stem, 4 to 5 feet high, with clean foliage.

Will be sent out March 15th, 1896. Price to the trade,

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CHRYSANTHEMUMS.

(Ready February 1st.)

APOLLO—Gracefully incurved yellow, late, fine form, good stem and foliage. Free grower, always produces perfect flowers, height 3½ feet. A No. 1 commercial variety, and a grand single stem pot plant. Strong, healthy plants from 2-inch pots, 20 cts. each; \$15.00 per 100. 25 at 100 rate.

MRS. J. M. ATHERTON—First class certificate at Atlanta. Large white, spherical Chinese, in fact the largest and best white of this class, surpassing Miss Gladys Spaulding in every respect. Extra stout stem and large handsome foliage up to flowers. Height 3 to 4 feet. Excellent pot plant and commercial cut flower variety. From 2-inch pots, 25 cts. each; \$18.00 per 100.

MRS. S. T. MURDOCK—The best commercial pink, and **PHILADELPHIA**, \$7.50 per 100.

The following varieties at \$2.50 per 100; 50 at 100 rate. Bonnafon, Minerva, C. Chalfant, Marion Henderson, Comrades, Niveus, Marie Louise, Ivory, Queen, Good Gracious, Lady Playfair, Mrs. Wm. R. Smith, Mrs. J. Geo. Iles, *Enfant des deux Mondes*.

Nothing but vigorous, cool grown plants sent out.

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OUR NEW CHRYSANTHEMUMS FOR 1896

Have been fully indorsed by the
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Descriptions and prices free on application.

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CHRYSANTHEMUMS.

Choicest Seed, 25c. per pkt.

Most complete collection in the world. 500 varieties to select from. Send for list.

THESE 20 AS SAMPLE, FOR \$1.00.

Olympus, Zuluinda, E. Heacock, E. Dalldouze, Crystalina, Gold Dust, Gladys Spaulding, Wm Seward, G. Pitcher, Freedom, Titian, L. D. Black, Silver Cloud, S. T. Murdock, Princess Mny, Mrs. Parker, Yellow Queen, W. A. Bryant, Mrs. R. Dean, Lady Playfair.
T. H. SPAULDING, 40 E. 25th St., New York.

WE WANT ROOM.

For the next 10 days only, I offer fine healthy and well rooted cuttings of Carnations:

Rose Queen, \$3.00 per 100; \$25.00 per 1000. Wm. Scott, \$1.50 per 100; \$10.00 per 1000. Daybreak, \$1.50 per 100. Cash with order. Satisfaction guaranteed.

FRED. SCHNEIDER, Florist,
751 Crawford St., Cleveland, O.

TWO BEAUTIFUL NEW CHRYSANTHEMUMS

GRETCHEN BUETTNER.

A large, beautiful white of great depth; distinct in color and form. Strong stem and fine foliage. 3½ ft. Crown bud. Certificate of Merit Horticultural Society, Chicago. First Class Certificate N. C. S. (See Am. Florist, Nov. 16)

\$5.00 PER DOZEN; \$35.00 PER 100.

READY MARCH 1, 1896.

E. BUETTNER, Park Ridge, Ill.

MRS. E. BUETTNER.

A beautiful clear yellow reflexed flower, in form like Morel, with excellent stem and foliage. Late. 3½ feet. Crown bud.

First Class Certificate N. C. S.

\$4.00 PER DOZEN; \$25.00 PER 100.

ORDERS BOOKED NOW.

PINK IVORY,

(MISS AGNES L. DALSKOV.)

Young Plants, \$2.00 per Dozen; \$10.00 per 100.

ORDERS BOOKED NOW FOR DELIVERY MARCH 1st.

M. HANSEN, New Durham, N. J.

NEW CHRYSANTHEMUM IVOIRE ROSE,

A Sport from Ivory. Without doubt the best all round variety grown for general purpose. In color it is a beautiful silvery pink. No grower should be without it.

We offer plants from 2-inch pots, March 1st delivery, at \$3 per dozen; \$20 per 100. Orders booked and filled in rotation.

JOHN BREITMEYER & SONS, DETROIT, MICH.

NEW SEEDLING CHRYSANTHEMUM

MRS. ADELAIDE WHITE.

We have grown this for three years, and recommend it for exhibition, as specimen plant, or cut bloom. The *Florists' Exchange*, Dec. 7, '95, page 1190, said of it, "The flower is of the hairy Japanese type; the color is entirely different from anything we have seen in that class. The lower florets were deeply suffused with pink, the upper ones being a clear white color; the combination making a pleasing effect."

READY MARCH 15th, 60c. each; \$6.00 per doz.

Orders booked in rotation.

W. MENEILLY & SON,

1218 James Street, SYRACUSE, N. Y.

SMILAX from 2-inch pots, \$1.50 a 100; strong plants by mail, 50c per 100. GERANIUMS from 2-in. pots, \$2.25 per 100. Send for samples. Cash with the order.

FRED. BOERNER, Cape May City, N. J.

CHRYSANTHEMUMS.

80 New Varieties, including

Miss M. M. Johnson, J. E. Lager, Philadelphia. Minerva, Marie Louise, J. H. Troy, Mrs. Henry Robinson, Sunrise, Miss G. Pitcher, John Shrimpton, Royal Windsor, Mrs. S. T. Murdock, H. W. Riemann, Miss F. Pullman and Zuluinda. Fifteen plants for \$1. Send for catalogue. Address

M. B. LITTLE, Clens Falls, N. Y.

Will's Show.

Sweet Peas....per pkt, 200 seeds, \$1.00

Pansies..... " 5 " 1.00

Nasturtiums... " 100 " 1.00

One pkt. each of the above FOR \$2.00, by mail, postpaid. Only a limited number of these wonderfully beautiful mixtures to spare this season.

OSCAR H. WILL & CO., Fayetteville, N. Y.

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News Notes.

MISSOULA, MONT.—The greenhouse and dwelling of Mrs. Wm. Neill were destroyed by fire January 14. Loss about \$4,000.

BETHLEHEM, PA.—Jacob A. Fries has erected the past year 2 greenhouses each 80x22 feet, one 10x78 feet for John E. Haines to be used exclusively for vegetables.

SHIREMANSTOWN, PA.—The floral department of the firm of H. S. Rupp & Sons will hereafter be conducted as a separate establishment by Jno. F. Rupp. He has about 4,000 feet of glass.

TOLEDO, O.—Cut flowers are very scarce, especially Bride roses and Daybreak carnations. There is plenty of bulbous stuff in now. C. F. ImObersteg is adding a new greenhouse 20x60 to his plant, which he expects to have ready for bedding stock.

BARSTOW, TEX.—The McKillop Co. has been incorporated with headquarters here, to do a seed, plant and nursery business. Capital stock \$20,000. Incorporators: George E. Barstow, Herbert S. Barstow, Providence, R. I.; R. I. Walter, River Point, R. I.; Thomason and R. D. Gage of Reeves county.

ELISABETH, PA.—Caird Bros. have torn down and rebuilt two of their greenhouses, one 24x75 feet and one 16x75. They heat by hot water with a coil of 2-inch pipe in furnace, having a private reservoir or hill with a pressure of about 60 pounds for water supply, and attaching this to hot water, which is the same as an expansion tank. Business has been dull the past few months, carnations very plentiful and poor demand for same.

WASHINGTON, PA.—The A. B. Caldwell Co. has recently started in the florist business, they having about five thousand feet of glass. Their establishment is on the corner of East Wheeling and Lincoln streets. New greenhouses have been built by Wm. Carter, he having houses 20x40 on Wilson avenue. Wm. Wallace has also built new greenhouses 20x30 on Locust avenue heated by hot water. Wm. Sample has new houses 20x40 situated on Locust avenue.

ASPINWALL, PA.—Zieger Bros. have built on corner of 11th street and Eastern avenue, on top of the hill, three greenhouses 20x100, one 10x100, and one 20x70, for growing cut flowers for the wholesale market. The old place corner Eastern avenue and 5th street at the foot of hill consists of two houses 20x100, one 10x100, one 20x20 (20 feet high) for palms and decorative plants. This place is used for growing all kinds of plants mostly for the retail market.

Horticultural Manure

contains more plant-food in *one hundred pounds* than is contained in *one ton* of any natural manure.

Liquid Manure

made from it is cleaner, cheaper and better than from any other source.

In 10, 25, 50 and 100 lb. packages for florists' use. Write for trade prices and pamphlet.

ROBT. L. MERWIN & CO., 88 Wall St., N. Y.

ROSES, TREES, BULBS, PLANTS.

200,000 Strong, hardy, nursery grown Roses.
500,000 Pot Roses, Teas, China, Bourbon, etc.
Greenhouse plants of all descriptions.

100,000 Elegant Poplars, 5 to 25 feet, Carolina Aurea, Lombardy.

ONE THOUSAND CAR LOTS of OTHER ORNAMENTAL TREES, SHRUBS, Etc.

250,000 Peach, choicest sorts.
150,000 Pear, standard and dwarf.
100,000 Plum, best European and Japan.
75,000 Cherry, Morellos, Hearts, etc.
150,000 Apple, Quince, Apricot.

100,000 Nut bearing trees.
2,000,000 Small Fruits, Grapes, Currants, Gooseberries, Raspberries, Blackberries, Dewberries, Strawberries.

We occupy one and a half miles on the bank of Lake Erie. No healthier, hardier trees are grown on the continent. Catalogue and Trade List free. Lower quotations given on large lots. Write us We can do you good.

42nd YEAR. 1000 ACRES. 29 GREENHOUSES.

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WE MAKE
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USSY, (Calvados), FRANCE,

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C. C. ABEL & CO.,
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BRILLIANT GREEN AND BRONZE GALAX LEAVES.

LARGE AND SMALL SIZES.

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LEMON OIL INSECTICIDE,
Used now by the leading Florists.
75c. per quart; \$1.25 per 1/2 gallon; \$2.00 per gallon; \$9.00 for 5 gallons.
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Artistic Metal Designs.
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Terms—Net cash with order. If ordered shipped by freight, add 50 cents cartage.

Size	Packed In Crates of 1000	Gross Weight per 1000 pots	Per 100	Per 1000
2 1/2 inch.	1000	about 20 lbs.	80 25	\$2 00
3 1/2 "	1000	" 25 "	30	2 30
4 "	1000	" 34 "	35	2 80
5 "	1000	" 45 "	50	4 00
6 "	500	" 75 "	60	5 00
7 "	500	" 100 "	90	8 30
8 "	500	" 150 "	1 50	13 35

Standard Pot Measure.

Less quantities than full crates at 100 rates.

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WHOLESALE
FLORISTS' SUPPLIES ONLY,
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Our new Catalogue is now out, free upon application.

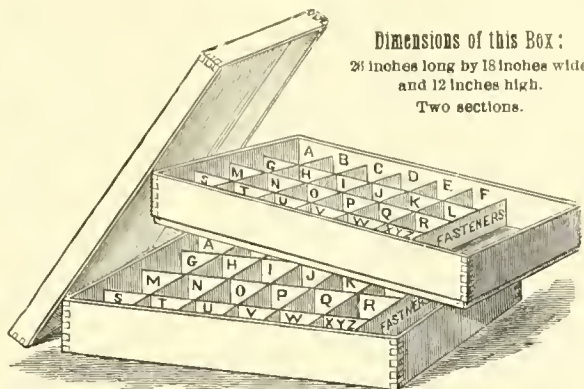
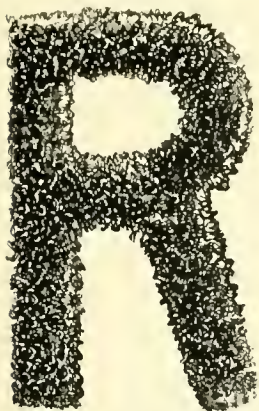
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FOR FLORISTS.
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John Conley & Son,
Manufacturers of
TIN FOIL
2 AND 4 DOMINICK STREET,
New York.

RIBBON
FLORISTS' SPECIAL COLORS:
American Beauty, Violet, Bridesmaid, Orchid, etc. Write for samples.
Reference: THORLEY. C. O. D.
H. M. WEISEL,
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24 inches long by 18 inches wide
and 12 inches high.
Two sections.

This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

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Manufacture the Best Letters in the Market.

Sizes 1½-in. and 2-in. 2.00 per 100. Patent fastener with each letter.

OUR NEW SCRIPT LETTER, \$4.00 per 100.

N. F. MCCARTHY, 13 GREEN ST.,
Treas. & Mangr. Boston, Mass.
Office, 84 Hawley Street.

We have a new FASTENER which we consider a decided success. Any customers having old style fasteners which they wish to exchange, can do so without additional cost by writing us.

These Letters are handled by all the Wholesalers Boston.

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N. F. McCarthy & Co., 84 Hawley Street, Boston.
The Henry Philipps Seed and Implement Co., Toledo, O.
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The **ATOMIZER**
does it all.



Mixes hot and cold water, Liquid Manure, etc. With

BULL DOG HOSE

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CLEMATIS.

Doz. 100

Two years, all large flowering, choice named, leading kinds..... \$2.50 \$20.00
H. P. Roses, 2 years, 4-inch pots..... 1.50 10.00
Paeonies, named in 10 choice sorts..... 1.25 8.00
Daisies, Dbl. Eng. Snowcrest, Snowflake..... .50 2.00
Smilax, strong plants, one year..... .50 3.00

F. A. BALLER, BLOOMINGTON, ILL.

COLEUS.

First-class Rooted Cuttings in the best varieties for bedding.

70 cts. per 100; \$6.00 per 1000.

Or will exchange for rooted cuttings Carnations.
TH. F. VAN DER MEULEN, Dunkirk, N. Y.

ROOTED CUTTINGS—Good Ones.

Verbenas, 24 varieties..... 20 cts per 100; \$7.00 per 1000
Fuchsias, 12 "..... 20 cts per doz.
Heliotrope, 7 "..... 20 cts
New Giant Alyssum..... 20 cts
Cuphea Elata or Cigar Plant..... 20 cts
Salvias and Marguerites..... 20 cts
Mexican Primroses and Ageratum..... 20 cts
Coleus, 12 cts; Chrysanthemums..... 20 cts
Roses, 25 cts. Postage, 1 cent a dozen. Cash.

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GLASS. ROCK BOTTOM PRICES. Send for Estimate. Satisfaction guaranteed.

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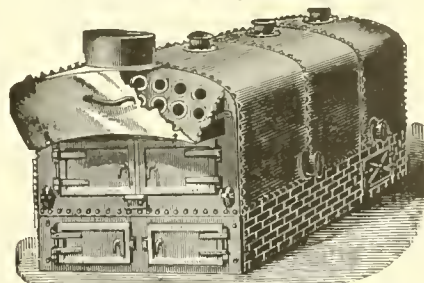
102 South 5th Avenue, NEW YORK CITY.

Kroeschell Bros. Co.

IMPROVED

Greenhouse : Boiler,

41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

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**GREEN HOUSE,
ROSE HOUSE,
NURSERY,**

Conservatory, Lawn,
House, Garden, Stock
or any other purpose.

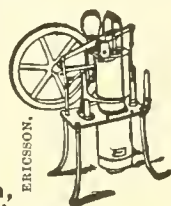
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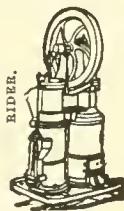
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Their operation is so simple and safe that a child can run them. They will pump water from shallow streams or any kind of well. They can be arranged for any kind of fuel. Capacity 1,500 to 30,000 gallons of water a day, according to size.

The De Lamater Iron Works,
467 West Broadway,
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HOT-AIR PUMPING ENGINE.



"ROSE LEAF"

Extract of Tobacco INSECTICIDE!

A VERY STRONG NICOTINE SOLUTION.

Applied by boiling on small kerosene stove; evaporating pans; painting pipes; special steam cylinders; dropping red-hot iron weights or fire-bricks into narrow pans containing diluted extract; or, by syringing. TRY IT!

Price, 5-gallon can \$5 00
" 1-gallon can 1.50

...PREPARED BY...

Louisville Spirit Cured Tobacco Co.,
LOUISVILLE, KY.
Mention American Florist.

J. N. STRUCK & BRO.

Manufacturers of

• CYPRESS • Greenhouse Material,

LOUISVILLE, KY.

Mention American Florist.

New Notes.

NORTHBROOK, PA.—Percy Barnard has built one new house and rebuilt an old one.

RIEGELSVILLE, PA.—John Stone will add a chrysanthemum house 20x70 this season.

MCGOVERN, PA.—Hugh Holland has added two new houses, one 10x56 and one 20x56.

UNIONVILLE, PA.—Jos. Renard has rebuilt 4 houses, changing heating to overhead system.

LOCKLAND, O.—F. Pentland has put up four new greenhouses 20x80 feet, heated by hot water.

WILLOWDALE, PA.—Rakestraw & Pyle have built two houses 20x100, to be used for growing carnations and tomatoes.

ADA, O.—Henry Young has just completed four new houses, two 80x20, one 80x26, and one 80x12, also a 50 foot propagating house, and boiler house 78x13.

KINGSTON, N. Y.—J. V. Burgevin, son of Valentine Burgevin, has gone in business on his own account as a retail florist and landscape gardener. His place is on Broadway.

EASTON, PA.—W. F. Keller is about completing the second new house started last fall; it will be used for smilax, asparagus, and general stock. A new office and salesroom will be erected at the greenhouse establishment as soon as weather permits.

WYNCOTE, PA.—An extensive range of greenhouses, including a large palm house will shortly be erected on the grounds of Cyrus H. K. Curtis at this place, under the supervision of Edward Campbell, landscape architect, Ardmore, who has the development of the grounds in charge.

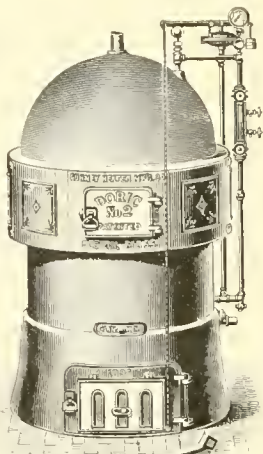
ONEONTA, N. Y.—William Kraber the genial foreman from Mrs. S. Scott's establishment, has decided to go into business for himself, and is moving to New Bedford, Mass. where he has rented about 6,000 feet of glass. He intends growing a general stock. He will be succeeded by Arthur Newport, for nine years with Whittle Bros., of Albany, N. Y.

WELDON, PA.—Edward D. Drown has a fine lot of young bedding plants and expects a good spring trade. He also reports a good demand for young ferns and has a good stock coming on. A Victoria does well with him and he will plant a good many more this year. Edward Towell has a fine house of carnations, especially his Wm. Scotts and Day-break. He reports trade good and is building two new houses this spring, one 125x19 and one 75x12. All his houses are heated by hot water under pressure.

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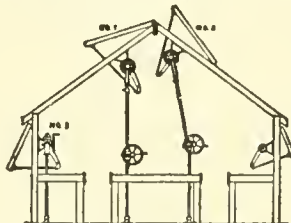
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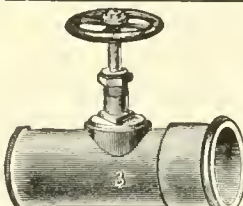
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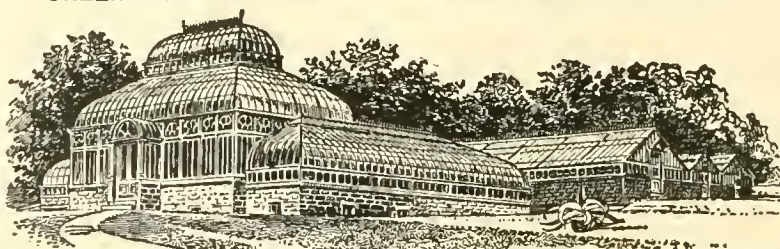
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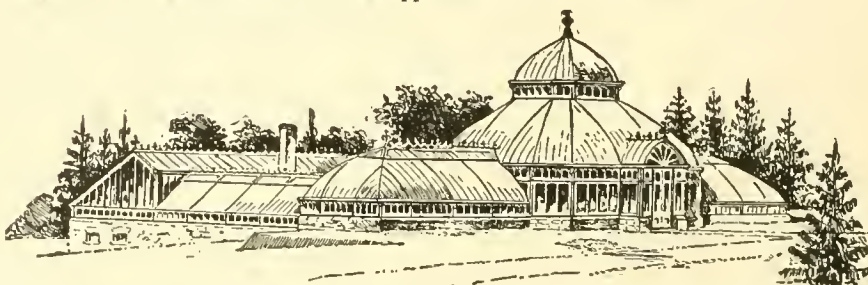
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Vol. XI.

CHICAGO AND NEW YORK, FEBRUARY 22, 1896.

No. 403

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WM. SCOTT, Buffalo, president; ADAM GRAHAM
Cleveland, O., vice-president; W. J. STEWART, Bos-
ton, secretary; H. B. BEATTY, Oil City, Pa., treasurer.
The twelfth annual meeting will be held at Cleve-
land, O., August, 1896.

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Society of American Florists.

Owing to the unfortunate accident to
President Scott the meeting of the execu-
tive committee of the Society of American
Florists which was called for Feb. 25 at
Cleveland has been postponed and will
not be held until Mr. Scott is able to at-
tend. Wm. J. STEWART, Sec.



American Carnation Society.

NEW YORK MEETING.

Bright skies welcomed the carnation
enthusiasts to New York. The low tem-
perature which has necessitated the great-
est care in packing and protecting the
precious exhibits in transportation had
good effects otherwise and on no previous
occasion have the blooms appeared as
fresh and crisp when unpacked.

The palm garden in the Grand Central
Palace proved to be the ideal location for
such an exhibition and the way the
blooms kept in condition on the tables
was a potent demonstration of the claim
often made that the carnation to last well
needs plenty of cool and pure air. The
only serious drawback was the fact that
the space reserved for the meetings was
separated from the exhibition only by a
screen of palms and the buzz of conversa-
tion and stir in the exhibition department
made it next to impossible to hear any-
thing that was said on the platform.

The opening forenoon was spent in
staging the exhibits and social greetings
and it was past noon when Mr. J. N. May
called the meeting to order and introduced
Mr. P. O'Mara, who proceeded to extend
to the visitors a hearty welcome in the
name of the New York Florists' Club.

The first business was the election of
judges. Messrs. Edwin Lonsdale, W. R.
Shelmire and D. Zirngiebel were selected
to judge in classes A, B and C, and Messrs.
Robt. Craig, Ernst Asmus and J. N. May
to judge the seedlings.

President Dorner then proceeded to read
his address which was received with ap-
plause. It was as follows:

President Dorner's Address.

We are again assembled at our annual
meeting in the promotion of our calling
and in the interest of our trade; to ascertain
what progress we have made in the past
year; to deliberate how we further can
advance our interests; if we have made
errors to rectify such.

We have come together to exchange
ideas, compare experiments; have come to
see an exhibition of the products we are
so much interested in, and it will be more
so, as by our good fortune we meet this
year in a section of the country where
floriculture is most forward and where
we expect to see the best ever exhibited at
our meetings. We come together in a
spirit of sociability and I hope that this
spirit will move and pervade our counsels

and deliberations, for only if such a spirit
prevails can our work here, the promotion
of our calling, combined with our business
interests, be successfully carried out.

Sociability loosens the tongue, excludes
haughtiness and arrogance and removes
bashfulness; sociability is the salt and
spice and should be enjoyed as such
wisely; too much or not enough will spoil
every dish and make it unpalatable.
With earnestness, diligence and impartial-
ity spiced with sociability, our meeting
will be a benefit for all and a pleasant re-
membrance for life. Let every one try his
best to make this meeting as interesting
as possible, and especially I would like to
encourage the timid and bashful and let
not their lights be shrouded under these
dispositions.

At and before the incorporation of the
S. A. F., floriculture showed a different
aspect in the management of most estab-
lishments from the present time, a general
culture of most all flowers and plants
being carried on. With the advancement
and progress of our trade came the spec-
ialist. Those specialists, engaged in the
same culture, banded together, moved by
the impulse of progress and protection,
and the so-called auxiliary societies were
formed. The foremost and strongest of
these is our Carnation Society.

At the last convention of the S. A. F. at
Pittsburg, one of the most important
topics was the closer relations of these
auxiliaries with the mother society, for
these auxiliaries are considered the off-
spring of the S. A. F. and it is claimed
they detract too much attention from
them. It is a question yet how far we
can be considered an offspring of the S. A.
F. From its first inception the Carnation
Society stood on its own feet. The fact
that some of the prominent members of
the S. A. F. are also active members of
this society, does not justly intimate the
relationship as claimed by some. I do not
wish to detract the least from the S. A. F.
I am a member myself and I wish every
florist in the country would call himself
one and acknowledge and appreciate the
good it has wrought and is doing at all
times; but I consider these auxiliaries,
and especially our Carnation Society,
more the result of the evolutions in flori-
culture. Progression, our welfare and in-
terests demand a close alliance with the
other branches of floriculture, a union of
all, with the self-management of each. To
give up our integrity as a society of car-
nation growers, to be subordinate, to
come to submission like a refractory
child, we can never do. The S. A. F. with
its wide scope of usefulness, its principle
to embrace all and everything pertaining
to floriculture, should use its influence and
bring about a union; not to take these
auxiliaries under their wings, for our
pinions may prove equally strong, but to
bring about a union of self-sustaining
societies and clubs, to unite all under the

supreme title and government as the S. A. F. It will be well to mention these things, as in all probability overtures may be made by the executive committee of the S. A. F. pertaining to this matter, and it will be equally well if our executive power will learn the sentiment of this society.

I would recommend making some changes in the registration of new varieties. In the amended list of varieties in last year's report are 550 names; some of these immemorial and discarded, new varieties that never found the way beyond the place of the originator, never were disseminated. For instance, I find two of my varieties on the list that never were disseminated and not in existence any more. This large list of varieties of which probably one fourth is in cultivation at the present time is perplexing to any one consulting it. The nomenclature committee has done a great deal in compiling the list and especially their endeavor to find out what is grown most deserves much credit and is to be appreciated. I would like to suggest a separation of the present list of 1895 into the following headings: List of new varieties, not disseminated but entered for registration; list of standard varieties in general cultivation and new varieties advertised for dissemination; list of discarded varieties; and these varieties of which the committee could not receive any information at all be left out altogether.

There is often very much in a name, to enhance the value of the variety, if to signify a certain quality, habit or any other merit desirous to emphasize; such names if found in the discarded list could be used again without running the risk of naming a variety with the name of one in cultivation. It will also help to make the names of standard and new varieties more conspicuous and bring it to the notice of every one consulting this list.

We hear occasionally of depressions in some markets caused by overproduction, times when high grade blooms bring but little and low grades find no market at all. We want better quality and less quantity. The carnation is dear to all lovers of flowers, their keeping quality when properly grown, cut and marketed, is indisputable and it has proven so far good flowers were always sold at fair prices and the overstock of inferior quality cause the glut. Further I believe with a careful systematic cultivation the cropping propensity of many varieties will to a large extent be alleviated and their blooming more evenly divided through the season. This one important point, the result of high cultivation, growing of high-grade blooms is only one, many more could be enumerated, all tending to a betterment, to more steadiness in the markets and the prevention of overstock.

We cannot be too urgent in our endeavors tending in this direction. The demand for high-grade blooms is on the increase. It will involve a little more care and expense and may apparently lessen the quantity. Better returns will justify more expense; and in regard to quantity, when summed up at the end of the season will not fall much shorter than when crowded on in crops on over-filled benches.

Our past is marked by success, our backward glance is one of satisfaction and encouragement; our future, although full of work lies bright before us and I hope that this meeting will be as pleasant and prove as instructive as our former ones have been.

The reading of minutes of the Boston meeting, treasurer's report and secretary's report followed, it appearing that there

are 86 paid up members to date and the treasury is in satisfactory condition.

President Allen then extended an invitation to the members of the Carnation Society and of all organized florists' clubs and horticultural societies to attend the banquet of the New York Florists' Club at the Broadway Central Hotel in the evening and the meeting then adjourned till 2 p. m.

The afternoon session opened with the reading of reports from several florists' clubs on local judging of seedlings, after which a paper by C. W. Ward on "The future of our floral societies" was read by Wm. J. Stewart. W. R. Shelmire briefly endorsed the sentiments expressed by Mr. Ward.

The Future of Our Floricultural Societies.

BY C. W. WARD, QUEENS, N. Y.

Within the past decade, the art of American floriculture has received such an impetus, and the advancement has been so marked, as to excite feelings of genuine enthusiasm in the breast of every lover of plants and flowers who has had an opportunity to compare the past with the present condition of the art. Not a little of this improvement has been stimulated to a certain extent by the organization of the various floral societies that have sprung into existence within the last 20 years. The Society of American Florists, the American Carnation Society, the chrysanthemum and other special societies, and the various horticultural societies as well as florist and gardeners' clubs, have been potent factors, and severally and collectively lent efficient aid to the general cause of floricultural improvement. Not only has this improvement been extended to the art of producing flowers and plants to a greater perfection, but all branches of the trade have received due attention; the social condition of the commercial florist has received some attention, the proper and efficient use of flowers and plants as decorative features has been largely increased, a higher standard of commercial dealings between florists prevails and an extended acquaintance among the members of the craft has been formed. The benefits commercial florists have derived from these associations have been indeed large and the future welfare of all of our horticultural and floricultural associations should be carefully considered, and a concerted effort should be made to increase their numbers, variety and usefulness, as well as to increase the memberships of those now in existence. By a careful study of the past we may in a measure judge of the future, and by avoiding the errors and emulating the successes, we may continue the good work so propitiously begun.

It is a matter of deep regret that within the past three years, one of the largest and supposedly most vigorous of our floral societies has shown such a marked decrease in membership, and its annual meetings have developed such a marked want of interest on the part of its members as to cause serious apprehension as to its ultimate future. In casting about for an explanation of this condition of affairs, the managing members have sought to attribute it to the defection of members to the various societies that have been organized of later date. That this explanation is not born out by the facts may be readily perceived when one considers that the total membership of the later organized societies does not equal the decrease in membership of the

Society of American Florists during the same period, and further that 60 to 75% of the members of the junior societies are still members of the Society of American Florists. Manifestly then, to some other cause must be assigned this decrease in membership.

It has been claimed by some that the people in the vicinity of the location where each annual convention was held joined in large numbers under inducements of the various attractions and under the influence of enthusiasm, and that the next convention being held at a remote place would take up another clientage, while those of the previous year would quietly drop out and stop paying their dues, and it is also claimed that when a convention is held in the vicinity of where one had been previously held, the advance in membership from those localities was small. It has also been said that the exhaustive detailed accounts of the meetings of the S. A. F. which have been spread broadcast by the trade papers have lessened the anxiety to obtain the annual reports of the society. It has also been claimed that when these conventions commenced, many of the florists had never travelled much and that the opportunity to travel at low rates and see other cities was a great temptation, and that now this novelty has worn off and that the desire to travel long distances to conventions no longer exists. It is fair to presume that the bulk of retiring members would remain with the society, had either one of the following conditions held true: First if they had been fully satisfied with its management, second, if they had believed that they were receiving benefits commensurate with the annual dues their membership imposed upon them, or thirdly, had their interests in the society's future been properly kept alive. Perhaps one of the causes has been that the manner of conducting the society's affairs has been such as to cause many to feel that they had no adequate voice in the proceedings, save to pay annual dues and witness the casting of a majority ballot in the election of a Board of Officers selected by a caucus composed of a limited number of members who possessed sufficient knowledge of politics and sufficient self-assertion to successfully manipulate their slate. Possibly such manipulation, which can scarcely be claimed as majority rule, built up prejudices against many members actively engaged in the caucusing, and the impression that the Society's interests were ruled by a clique might have grown into conviction, and many ceased financial support to an organization in which they considered they had no deciding voice as members. Possibly another unfortunate feature might have been the desire on the part of a governing minority to build the S. A. F. into a controlling organization, making all other floral societies subject to its control. Many might have believed that should such an unfortunate movement succeed, it might in the end work no little mischief to the younger societies, crippling their advancement and hampering their usefulness without accomplishing any adequate advancement in floricultural interests in general, and they might have characterized it as an effort to monopolize, control and dictate the future floricultural development of this vast country.

In order to understand what such domination would mean, it will be necessary for us to turn for the time being to the horticultural interests of Great Britain, comparing their number, scope and magnitude as proportionate to the

British population with the ultimate growth of American horticultural interests, in proportion to the enormous population that is soon destined to occupy this continent. According to the best information at my command there exists in England at the present time, some 400 horticultural societies of various classes, distributed among a population not exceeding twenty-seven millions, or an average of one horticultural society to 67,500 inhabitants. The present population of the United States is at least sixty millions, possibly seventy; allowing the same ratio of one horticultural society to 67,500 inhabitants, would give us material for about 900 horticultural societies should the interest in horticulture become as fully developed as in England. It has been asserted that the United States is capable of supporting a population of upwards of two hundred million. When this number is reached, there will be material for about three thousand horticultural societies of the various classes. Considering commercial florists only, we now have in this country not less than 10,000 commercial florist's establishments where plants and flowers are grown and sold, or bought and sold. These establishments should afford an average of three persons to each establishment, who should properly be eligible to membership in some class of Florists' Society, giving us in round numbers 30,000 possible members of the different classes of purely commercial florist societies. With a population of two hundred millions this would be increased to 90,000 eligible members for commercial florist societies alone. Further, we may estimate the number of private places employing skilled horticultural labor at double or treble the number of commercial establishments or from 20,000 to 30,000, thus affording from 20,000 to 30,000 persons available to membership in various classes of gardener's associations. Should we wish to consider the number of persons available to membership in various classes of amateur florist societies, another 30,000 names would at least be added, making a total of at least 90,000 persons now available as members in some class of a florist association, which number would be increased to a half a million or more when the population reached the two hundred million mark. Should we now attempt an estimate of the membership available for all other classes of horticultural societies than florists, the aggregate would be so large as to challenge belief. I am informed that the S. A. F. at one period showed a list of 1147 members in good standing, or about 9% of the total number of eligible florists. Its present membership has fallen to 700, or 7% of the total number of eligible persons. These facts demonstrate the absurdity of any attempt to claim for the Society of American Florists any precedent whereby it should be considered as having established any shadow of right to dictate the nature of American floricultural associations. Purely analyzing its position, the S. A. F. is simply an organization composed of 7% of the number of persons engaged in commercial floriculture, and not less than ten societies of equal or superior membership might be organized outside of its ranks.

These comparisons are not given for the purpose of belittling the importance of the work already accomplished by the S. A. F., nor of casting any reflections upon it. Far from it; the splendid work accomplished by this society will remain its lasting monument, and it will occupy

a permanent place in American floricultural history, as a pioneer to the scores of floral societies that are destined to spring into existence, as powerful factors in the wonderful development of floriculture that lies immediately before us; but these comparisons are made for the purpose of demonstrating to a few misguided enthusiasts the utter futility of attempting to control through the medium of any one organization such vast interests, comprising such an enormous membership scattered over such an enormous territory.

A national society of representative florists may in time be formed by the election of delegates from various floral societies now in existence, and to be hereafter formed, but it may well be questioned if the time is yet ripe for such a step. Such a national society composed of delegates from all societies could fully establish the claim to be a representative body of American florists, and as such could consistently ask for a national charter. Perhaps it might justly be claimed that the number of florist's societies should not be diminished, that on the contrary, they should be increased in every possible direction, that we should not only have carnation, rose and chrysanthemum societies, but that any flower that can command a sufficient number of specialists as devotees to maintain a successful organization should be favored as well. Above all, that private gardeners, amateurs, owners of large private establishments should be encouraged to form themselves into associations for advancement in their several lines and that the existing societies should lend such movements their fullest encouragement and support. It might even be hoped that the time is now past once and for all when the organization of any new florist association, no matter what its class, should be the object of obstruction or question on the part of any society already in existence. Should efforts on the part of societies now organized be continued in this line of questioning or obstructing the further organization of various floricultural associations, it is possible that the majority of florists might arise with the accusation that a well organized trade union of trade florists were endeavoring to control the advancement of floricultural progress on this grand continent, and further it might be possible that should such a belief become firmly seated in the minds of the bone and sinew of the florists of America, it would prove a death warrant to the present societies, causing them finally to pass out of existence and to be supplanted by new organizations formed upon broader lines. Any effort to mold a national trade society upon the lines of certain existing secret societies, may well be questioned, and it might be claimed that such an organization might become a national trade union of florists and might prove as dangerous and disadvantageous to the individual florist as the modern labor union is to the individual workman, and the attempt on the part of a florist society composed of commercial tradesmen to overturn national precedents and by special legislation obtain for themselves a national charter, might be considered by those well informed in the affair of governments, as an attempt to introduce a precedent dangerous in its possible future in order that their special trade organization might reap some undue advantage and the abandonment of such measures might be taken as an indication of a broadening in the ideas of the dominant commercial florists of this country and of the resolve on their part

to allow the development of American floriculture to proceed on natural lines free and unobstructed.

But enough of the errors into which our societies have fallen or may fall into hereafter; this paper would indeed fall short of its mark did it not advance some ideas as to how and in what manner the future welfare of our floral societies may be fostered and insured. It has been claimed and admitted that since the organization of the American Carnation Society the improvement of the carnation has been marked and wonderful and it is also admitted that this improvement and successful growth of the society has been coincident. This fact would seem to solve the secret of the future welfare of all our special societies. Successful, well managed popular annual exhibition of the special flowers, governed by the special societies, such exhibitions to take place when the flowers can be shown developed to their greatest perfection. These exhibitions besides acting as popular educators and improvers of the taste for finer flowers, serve as powerful stimulants to their members to put forth increased efforts in improving their products, and such encouraged efforts compass in a large measure the advancement of floriculture. It has been questioned whether the greatest number of people can be reached in this manner by a national society, moving about to a new locality each year, often selecting that locality which proffers the greatest support in the way of a champagne dinner, or whether more quiet meetings held by local florists so managed as to attract more of the attention of the general public and less of the convivial spirit would produce more substantial results. I shall take the broad stand that every state in the Union should have its florist association; that these associations should hold three or four flower exhibitions each year. To those who exclaim against the burden of such exhibitions, let me say that these need not be on an ultra-extravagant scale. A moderate exhibition of choice flowers tastefully arranged, to which cards of invitation could be issued to that class which it is desired to reach should bring enough of an attendance to render the shows profitable as advertising mediums and should be entered into largely for this reason as well as for the effect upon the public, and that at all such exhibitions, the name and address of the grower should be prominently attached to his exhibit in order that he might receive the fullest measure of benefit from his enterprise and spirit as an exhibitor.

Certificates of merit, medals, honorable mentions and complimentary notices should be the main awards. Classes and medals and certificates should be provided for amateurs as well as for private gardeners. In fact the premium list should be arranged with a view of stimulating the love and knowledge of plants and flowers among as large a class of people as possible and should not be confined to the encouragement of commercial florists alone. From a commercial standpoint, florist societies should not be confined to the rank of tradesmen, but the formation of all classes of florists' societies should be generally encouraged, not only for sentimental but for trade reasons, the greater the interest the stronger the development of the popular taste for flowers and plants, the greater becomes the commercial possibilities of the florist. There is a feature that has been overlooked by many, that is, that every president, every secretary, every officer of a florist society becomes to a great extent

a special worker and more or less of an enthusiast. The greater the number of societies the greater the number and enthusiasm of these officers, whom I would characterize as special workers. I must confess that I have no sympathy with those who would build the florists of America into one vast cumbersome association, the control limited to a few heads, chosen upon the plan now pursued in our national societies. Such an association would prove narrow, cumbersome, slow to move and perhaps ultra-conservative, and eventually would afford too many opportunities for the formation of cliques and rings, the existence of which might prove very detrimental to the individual florist who did not possess influence.

But we must have a national society, says one, and why not build the S. A. F. into a grand head organization, a parent controlling all the others. This proposition leads us to several pertinent questions. Has a society organized by commercial growers and dealers alone, reaching in its palmy days a membership of 1140, but 9 per cent of the commercial florists in this country, and now reduced to a membership of 700, but 7 per cent of the total number of available members, entitled to the distinction of controlling the destinies and future educational prospects of the 9300 commercial florists who are not its members and whom it is at this date impossible to get as members by ordinary means? Is not the S. A. F. as now constituted a trade organization and nothing more? Does it differ in any respect from an association of shoe manufacturers, lumber dealers or dairymen, and can it claim national distinction because its members are engaged in the production and sales of flowers and plants instead of some other useful commodity? Should the future destinies of the national floricultural progress and development be entrusted in the hands of an organization composed wholly of tradesmen? Will such an organization ever be in the position to invoke the aid and co-operation of the wealthy lovers of flowers who have no commercial interest therein, but whose prestige as members would be invaluable? Personally, I believe not. To my mind the future national floricultural association should be a distinctively representative body, compassing all classes of floriculturists, amateurs, private gardeners and commercial growers as well. Its membership should not be large, but its members should be elected from the various local and special florist societies that are now and may be hereafter organized. Every florist society of any class that could command a paid up membership of 50 or 100 members should be entitled to elect a member to the national society and an additional member for every 50 or 100 additional members in good standing. Such an organization might be justly considered as representing American floriculture in its broadest sense. It could ask for a national charter with some show of reason. It would undoubtedly receive endowments from wealthy enthusiastic admirers of the goddess of flowers. It could establish a national headquarters, in short, it could wield, untrammelled by the selfish interests that must ever dominate tradesmen's organizations, an influence that would be permanent and of lasting benefit to American floriculture.

In closing this paper I would consider myself remiss in my duty to my fellow members if I failed with a word of advice as to their future course in treating certain propositions concerning certain proposed alliances with other organizations.

The Carnation Society has independently and alone accomplished much to be proud of. Its present state is eminently satisfactory. Its position is simple and devoid of entangling complications. Keep it so. Do not be drawn into a line of action that may in the end rob our society of its independence. Do not allow clever political moves to influence you in deciding upon a subject the outcome of which cannot be comprehended or the final result of which you cannot in a measure foresee. Go slow in forming partnerships with other associations! Recent experiments in gigantic partnerships among florists have not proven the grand success their promoters have designed them to be. A moderate sized, well-managed successful carnation society entirely free from in-cumbrance or complications with any other body, maintaining by annual exhibitions the popular interest in the divine flower which we represent will be a surer, safer course for us to pursue than any other that can be devised.

Nominations for place of meeting being called for, Harry Sunderbruch took the floor and on behalf of the Cincinnati Florists' Club extended a cordial invitation to meet in Cincinnati in 1897, and with such persuasive eloquence that the invitation was accepted by a unanimous vote.

Mr. Richard Bagg's paper on "Hybridization" was then read by C. H. Allen, as follows:

What are the Effects of Hybridization on the Carnation?

BY RICHARD BAGG, BRIDGETON, N. J.

Hybridizing is hardly the right word to use, in this case we should have said crossing, because with carnations we cross varieties only, and not distinct species, which is hybridizing, but as it conveys the idea better than most any other word, why should we not make use of it?

My first acquaintances among carnations were President DeGraw, Crimson King and a few other more or less noted. These I crossed together with the intention of getting something wonderful, but my first set of seedlings were remarkable for nothing except the high opinion I had of them. A few of them having the largest and most double flowers, were selected and crossed with each other and with named varieties. Then from this set of seedlings again the best were selected and inter-crossed with themselves and named varieties. This plan was followed for several years, without giving any grand results though the average size of the seedling flowers was gradually increased; then semi-occasionally a seedling would break from the regular run and give flowers that were in some points away ahead of the average, not perfect of course but still a distinct move in the line of improvement.

Now, if we only knew what to cross with to develop the improvement what a help it would be, but it takes so many experiments to discover which goes with what to produce a good result that it almost seems to be chance work. There are indications that the foliage and different habits of growth of the carnations will give some hints to guide in making a selection for crossing. Take two carnations with similar foliage and habit of growth and cross them each way, and the results will be nearly the same in both sets of seedlings, in size and color of the flowers and in the general appearance of the plants. With plants of opposite styles of growth the results are more

variable; the flowers in one set of seedlings are apt to be much better or worse than they are in the other. Suppose we select two carnations, one with heavy foliage and bushy compact habit of growth, the other with small leaves and slender habit, like Lizzie McGowan. If we cross the small leaved slender variety with the bushy one the results will be very superior to those produced by the reverse cross. In fact those of a slender habit seem almost useless when used as pollen parents, but often give excellent results when used as seed bearers. Probably there are other little differences that if taken notice of would aid in producing fine flowers. It takes so much time to find out and verify anything of this kind that I think if every one who is engaged in this sort of work would give his experience, both success and failures, no matter how trifling they might seem, it would prove very interesting and useful to all who are growing carnations from seed.

If we are working up a strain of carnations and wish to increase the size of the flower as rapidly as possible it can be done by crossing a flower with its own pollen parent. That is to say, we take two carnations A and B and cross A with B and then select the best seedling from this cross, which for sake of distinction we will call Y. Now, cross Y with B and the seedlings from this last cross will be likely to give us some with flowers perhaps half as large again as either parent. This might not work well if repeated too often; I have not tried it many times but am afraid the stem would get weak, and the plant lose in vigor.

My ideas about color were that any shade desired could be produced in carnations, in a way some what similar to a painter mixing colors; that a red and a white carnation crossed would give shades of pink. White crossed white give white and so on. But white crossed white will sometimes give plenty of white flowers and sometimes nearly all shades of red, even to the darkest crimson. White and red gives mostly shades of red. Red crossed red returns us reds again. The prevailing colors among seedlings are pink and red shades; perhaps these were the usual colors in the original variety. By this I do not intend to say that it is impossible to produce a strain of carnations that would not come true from seed, but it will take time to breed them up to that point. It does sometimes seem as if carnations had notions of their own, and were determined to do as they please. I have always used solid colors except Buttercup and a few seedlings in crossing. Lately I have been favored with an unusual proportion of variegated flowers among the seedlings. It is rather curious they should break out in this way. Buttercup has been putting in some of his fine work, though it is hard to believe so little of him could make so much variegation, yet we can trace him up in most of the cases. One of these variegated oddities of no special merit, except that I was sure, positively sure, there had never been one like it anywhere, attracted the attention of a lady visitor, and she exclaimed, "See that beautiful German flower, we had those at home in Germany." I did not tell her it was a true American by many generations, but I thought about there being nothing new under the sun, while a vague idea flitted through my brain of going to Germany and every other country where carnation are grown to learn the difference between old and new.

In carnations for crossing we want strong stems; this part is very important

and cannot be neglected. It seems to be easier to get large flowers than the stem necessary to carry them. We want also vigorous healthy plants of the free blooming class and in the flower good calyx and long petals. Flowers with petals comparatively short for their width are likely to burst; those with long petals are usually free from this defect; even the shape of the flower bud shows whether they will be apt to burst or not. Those with buds that are larger at the top than the base are all right, if the base of the bud is the largest they are almost sure to burst.

One thing it is well to bear in mind is that "Like produces like" or the likeness of some ancestors. The carnation we are now selecting will some day be an ancestor. Do we want to see it again showing all its best points or perhaps all its worst? It will not be likely to strongly impress the first generation, and perhaps we will wonder why that fine flower did not give better results, but wait till its grand-children and great-grand-children come along and if it is a flower of strong character it will surprise us by coming out unexpected here and there, such an improvement on the original that we have to trace up its genealogy to be able to recognize it.

It is rather remarkable that though the named varieties will seldom stand our winters, the seedlings from them are perfectly hardy and live through our hardest winters without the slightest protection, and when a thousand or more come out in bloom in June they make a show worth looking at. If you wish to try some it is not too late. Seed can be set now, ripened and good plants grown from it that will be large enough to live through next winter without protection and if the stock is good a large proportion will bloom next September. Plants that are set out in May and do not flower before cold weather are never free enough to be worth taking in, no matter how good the flowers maybe. For places farther north where the seasons are shorter this might not hold good. We are a trifle south of Philadelphia, with a soil naturally well drained, which would make considerable difference in wintering, for carnations hate wet feet.

In a field of seedling carnations we find an immense variety of shades and tints, mingled in reckless confusion, while here and there may be a touch of pure color, matchless for its brilliant tone; but what a pity the flowers of such beautiful color almost always prove to be single! This is merely a way they have of tantalizing us. Then there are large ragged flowers that are burst all to pieces, others in better shape and more or less double, all sizes and kinds except just what we want. Again a great difference is found in foliage and habit of growth; some will be tall, some dwarf, some with leaves comparatively broad, others with narrow grass-like foliage. Most of the largest finest plants that we expect will produce something extra in the way of flowers turn out good-for-nothing single ones. Then there are a few that return to the old type of annual bloomers; these make very pretty plants, round rosette-shaped bunches of green, but they never offer to send up a flower stem the first season. Those that bloom the soonest from seed can generally be relied on to be free and perpetual; between these and the annual type we will find many grades of freedom in blooming. All these variations are in our favor; it is an indication that by careful crossing, proper treatment and plenty of patience, the carnation will produce almost any style of flower we want, and

the time is not far distant when we shall have carnations as much superior to those now grown as the Bridesmaid and Perle roses are in advance of the old Bon Silene and Safrano.

The report of the exhibition judges was then presented.

Exhibition Awards.

Awards in class A, vases of fifty blooms, were as follows:

White, F. Weber & Sons, first, and Chas. H. Allen, second with Storm King; light pink, first, Cottage Gardens with Bridesmaid; second, Kent & Miller, Wm. Scott. Scarlet, first, J. I. Suydam, Portia; crimson, Cottage Gardens first, W. R. Shelmire second, both Meteor. Yellow variegated, the same exhibitors with Eldorado. White variegated, Wm. Swayne first; Dailledouze Bros. second, both Helen Keller.

Under class B Dailledouze Bros. took first on McGowan, Tidal Wave and Keller; Weber & Sons first on Alaska, Storm King, Uncle John, Daybreak, Albertini, Cartledge, Meteor, Buttercup, Chester Pride and Harrison; Cottage Gardens first on Bridesmaid and Kitty Clover; J. I. Suydam first on Portia, Bouton d'Or and Scott.

In class C Storm King from Cottage Gardens was first in whites, Bridesmaid from same exhibitor first in pink, and Hector from Weber & Son's first in scarlet.

Altogether the exhibition was considerably smaller than that made last year at Boston, but the flowers were of high quality throughout. On seedlings, Flora Hill, white, from E. G. Hill & Co., was the only variety that exceeded the 85 points required for the award of a certificate of merit. Della Fox from Myers & Samtman, and Jubilee from Hill were both recommended as likely to become standard varieties. Armazindy and Triumph from Hill were both also recommended highly. Ivory from Geo. Hancock & Son scored 70 points, Crimson Sport from J. L. Dillon 65 points and Edith Foster from Peter Fisher was awarded honorable mention. In the class for two-year-old seedlings seven varieties were staged. Mrs. McBurnie from Hill scored 90 points, Kate Schaefer from Hill 75 points and Marion Brown from G. H. Hale 73 points, a certificate being given to Hill's Mrs. McBurnie.

Quite a discussion was caused by the reading of a communication from Secretary Stewart of the S. A. F. inviting the Carnation Society to send a delegate to confer with the executive committee of the S. A. F. at its meeting in Cleveland, and the president was on motion of James Dean authorized to appoint a representative as invited.

The Banquet.

The banquet given by the New York Florists' Club at the Broadway Central Hotel was unquestionably the biggest occasion of the kind on record, nearly 300 of the club members and their guests participated. The grand dining hall was resplendent with flowers and green, columns, walls, ceiling and mirrors were profusely draped with southern smilax and enriched with great masses of carnations and tulips and garlands of bougainvillea. On the tables were baskets and vases of the choicest bloom that the local growers could produce and in unstinted quantity. To give the names of all the contributors would be to enumerate some 40 of the club's leading members. The decorative work was under the direction of Lawrence Hafner and he was ably assisted by A.

Warendorff, Wm. Plumb, J. Suplee, Geo. Hallinan and J. I. Donlan. The entire decoration was a display of floral loveliness, creditable alike to the donors and the artists who arranged it.

The oratorical part of the feast began with a brief word of welcome by President Allen, who then introduced Treasurer Weathered as the toastmaster of the evening, which resulted in an outburst of applause such as few men other than popular Charlie Weathered could hope to receive. The first toast was to the American Carnation Society, to which President Dorner and E. G. Hill responded. Mr. Hill's speech was one of the best he ever made and was applauded to the echo. John N. May responded eloquently to "Our Night," and was followed by Robert Craig, who spoke for American florists in his usual entertaining manner and expressed for his Philadelphia friends their thanks for the grand reception they had met. Robert Kift spoke for the fraternal societies, closing with a call for three cheers and a tiger for the New York Florists' Club, the grandest Florists' Club on earth.

P. O'Mara's response for our absent brothers was a touching tribute to the memory of these members who have died during the past year, and he also alluded feelingly to the deplorable enforced absence of President Scott of the Society of American Florists. Warren Ewell then made one of his inimitable speeches which set his audience fairly wild with laughter and was followed by D. D. L. Farson and several other entertaining talkers. Music was furnished by an orchestra and several songs were sung by local favorites, a pleasing diversion being also furnished in the graceful dancing of a little miss, who came in profusely draped in carnations.

The morning session on Friday opened with nomination of officers for succeeding year. There was but one name presented for each office, namely, president, H. L. Sunderbruch; vice-president, Richard Witterstaetter; secretary, A. M. Herr; treasurer, C. H. Allen.

E. G. Hill then told of his experiments with arsenical solutions for checking rust in carnations. He had found much difficulty in getting arsenic in solution, but had finally discovered in the preparation known as Fowler's solution used in the proportion of one ounce to eight gallons of water a remedy that will absolutely annihilate rust. He asserted positively that by the use of this formula carnation growers can bid adieu to all fears from rust henceforth.

President Dorner here called attention to some abnormal buds of Wm. Scott in which the petals, although full grown, adhered tightly to each other and refused to separate. A letter from Prof. Arthur stated that an examination of the buds failed to disclose the cause of the trouble. Several members however stated that they had encountered the same difficulty and in each case it appeared to be the direct result of over-feeding with nitrate of soda or fertilizers especially rich in nitrogen. The diseased buds came from N. D. Pierce, Jr., who stated that the trouble was not confined to Wm. Scott, but showed to a greater or less degree on many varieties.

Prof. F. C. Stewart then read a paper entitled "Some recent experiments in the treatment of carnation rust," giving results of a great variety of tests under many conditions and with various chemicals. The full detailed report of these experiments will be published by the New York Experiment Station in due time.

Chemical Fertilizers.

BY ELMER D. SMITH, ADRIAN, MICH.

[Read before the American Carnation Society at their New York meeting.]

The advantage of chemical fertilizers over others are the highly concentrated form in which they may be compounded, the ease with which they may be applied and their solubility, thus being powerful and effective with less expenditure for material and labor. They are also clean, free from smell and quick in their action. It is admitted that nitrogen, potash and phosphoric acid are the principle elements which encourage and sustain healthy plant growth. If this be the truth the value of all fertilizers must be considered from the amount contained of these three elements in connection with the cost after they are applied.

To illustrate how varied is the amount of plant food in different manures, let us make a mixture by uniting chemical salts and compare our result with other manures. We will make 100 pounds, using nitrate of potash, phosphate of ammonia and phosphate of potash in equal parts. This will give us nitrogen, 7 pounds; potash, 23 pounds, and phosphoric acid 26 pounds, or a total of 56 pounds of plant food that is available when dissolved. The Encyclopedia Britannica tells us that 40 tons of manure from fattening cattle contains 573 pounds nitrogen, 448 pounds potash and 475 pounds phosphoric acid. Reducing to the quantity per 100 pounds we have nitrogen .72, potash .56 and phosphoric acid .59, total 1.87 pounds or nearly 2 pounds of plant food. In this comparison the ratio is 1 to 28 in favor of the chemicals as far as quantity is concerned.

Very little need be said regarding the comparative cost of application; 2800 pounds of manure must necessitate more expense in application than 100 pounds of soluble chemicals. The analysis of sheep manure varies somewhat from the one given, containing less potash and more phosphoric acid and nitrogen, the latter being greater than both the others, yet there is but little difference in the total. As before stated to estimate the real value of fertilizers we must not consider the bulk we get for our money, but learn how much plant food they will afford. If sheep manure can be delivered for \$25 per ton (allowing it contains 50 pounds of plant food) the real cost of the fertilizing material is 50 cents per pound. It would be foolish and unjust to contend that animal manures do not give as good results as chemicals and very likely better in the hand of the inexperienced. It is very easy to overfeed with such concentrated matter.

What functions do each of these elements perform, or what is their effect upon plant life? Possibly you have asked yourself this question. It is a perplexing one to answer definitely. The Encyclopedia Britannica affords good reading upon this subject, although in some cases rather indefinite. My observations lead me to believe that nitrogen has more to do with the growth than the others. It seems as though potash and phosphoric acid modified the quality. Plants that are in apparently healthy condition and yet rather inactive, making growth slowly, I would recommend an additional amount of nitrogen to the feed. This may be done without increasing either of the other elements by adding nitrate of soda or sulphate of ammonia. Nitrogen is assimilated easier when supplied in the ammonium than in the form of nitrates, hence sulphate of ammonia will give the quickest results. Those who object to the use

of sulphates can use aqua ammonia which is excellent to hasten growth; four ounces of the FFF grade to 40 gallons of water. For sickly plants of any kind I know of nothing that will equal this in restoring vigor. Should the roots be injured from any cause it will be best to begin with a weaker solution and increase gradually as they improve. The advantages gained by the use of potash are less perceptible; it is supposed to assist or take part in the metabolic process and in this constructive and destructive operation the plant continues to gain in solid or weighty parts. Phosphoric acid seems to harden the growth and I believe has much to do with its substance and that of the flower. From these conclusions it will be seen that no one of these elements is sufficient in itself to sustain good healthy growth. The 100 pounds of fertilizer previously prepared was only to illustrate how highly concentrated they could be made, it being too abundant in phosphoric acid and deficient in nitrogen to be practical for general use. A good mixture for all plants should have about the same amount of nitrogen and phosphoric acid, while the potash should predominate over either of the others about 50 per cent:

To obtain the best results from the four most important species to the florist, namely: Carnations, chrysanthemums, roses and violets, I feel certain separate mixtures would be necessary. The carnation, rose and violet are continuous in their growth and flowering, the chrysanthemum and rose need similar materials to construct their hard woody stems, while the violet needs but little for such construction. Thus far I have not experimented with all these species and so am unable to give proofs of the foregoing conclusions, but am quite certain excellent results could be had (provided all other necessary details were closely attended too), by chemicals mixed in the following proportion:

For carnations, nitrogen 10 per cent, potash 25 per cent, phosphoric acid 12 per cent.

For roses, nitrogen 10 per cent, potash 17 per cent, phosphoric acid 17 per cent.

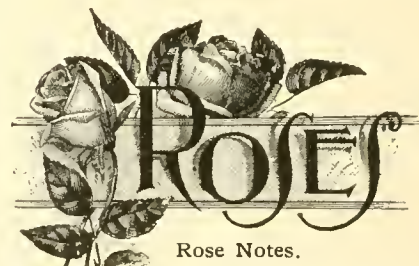
For violets, nitrogen 17 per cent, potash 6 per cent, phosphoric acid 17 per cent.

For chrysanthemums same as for roses until the buds are formed, when the supply of potash should be reduced in favor of nitrogen and phosphoric acid. The food material must not be considered the all-important factor in the production of plants and flowers. There are many other details which when properly looked after assist the plant to assimilate these foods. Fresh air is of great importance, as is the proper temperature and sufficient light and moisture. All of these important factors are dependent on one another, insufficient heat necessitates a less amount of water, insufficient light and air less heat or too spindling will follow. In addition to the three elements mentioned there are others which are found in the ash of most plants in varying quantities. The most important of these is lime, being very abundant in carnations and chrysanthemums. As lime is insoluble, probably the most practical way of applying is by top dressing and working it into the soil. Silica is present in the ash of all plants and is said to give stiffness to wheat straws.

Possibly stiffer stems could be given the carnations if it were applied in available form. We have made some experiments in this direction, but at present are unable to give anything definite upon the result. If there are others who would like to experiment in this line, will state we

used two parts of fuller's earth to one of lime, applying water to the lime in small quantities, repeating every few minutes until the process of slacking is well under way, when the fuller's earth is added, stirring till the whole is a fine whitish powder. This is then applied as top dressing and worked into the soil. The amount of silicate matter in soil varies greatly and possibly this accounts for the difference often noticed in the quality of stems, when grown under the same or very similar conditions. The question arises whether the carnation will assimilate enough to improve this desired characteristic, but this can only be determined by careful tests. There is very little loss of material when chemicals are applied in solution, the greater part being utilized, and herein is the danger of overdoing in our desire to increase in size, quantity and quality. The solution being so available is immediately taken up and if continued too often or too strong ruinous results follow.

When mixtures are used containing a total of 40 per cent or more of food and the application is continued once or twice per week, I would advise using not stronger than one ounce to ten or twelve gallons of water. It may be given stronger than this when occasionally used. Due consideration should be taken as to the present condition of the soil and plants. If the soil is rich with manures a smaller quantity will be needed than when the solution is depended upon wholly, or where old exhausted soil is used. The weaker growing varieties are first to show the effects of excessive food. Our results have been so satisfactory that we have depended upon chemicals alone for the past two years.



While it is not late for putting in cuttings by any means, yet the sooner we can get them into the sand after this date the better will be our chances of success next winter. Those already rooted should be taken out of the sand and potted without delay; nothing can be gained by leaving a rose cutting in the sand a single day after it is ready to pot. On the contrary the roots are liable to get brown and rusty, or too long to be got inside a small pot without the expenditure of altogether too much time. I know it sometimes happens that we have no place ready to receive a batch of rose cuttings ready for potting until the freesia is cut off or the Romans are out of the way, or a certain crop of flowers is all cut off, so as the foliage appears to be all right we leave our cuttings in the sand for two or three weeks, expecting that they will turn out satisfactorily. I believe that here is the origin of a good deal of trouble, which perhaps does not show itself until later; when a rooted plant is kept in a condition where it can do nothing more than exist for two or three weeks it must inevitably become stunted and a fit subject for disease. To have complete success with roses under glass I have found that at no stage of their growth should they have the slightest check (of course I have no reference here to plants which are run

more than one season). In providing a place for our young stock we must not be carried away with the idea that any place is good enough, because the very best is none too good; they require and should have the lightest and airiest bench in the house, and be not too far from the glass. Soil suitable for potting should have been provided in the fall and stored in some dry and convenient place. I would add here that if the soil that has been used the present season for growing our roses has proved unsatisfactory, as judging from the many letters I have received has been the case in many instances it will be very unwise to pot our young stock into the same kind of material again. I know from experience that some soils that will grow good carnations and other plants cannot be made to grow roses under any circumstances.

Potting rose cuttings is an operation which requires a good deal of care and skill, but is often done in a very careless indifferent manner. To stand and watch some men drag rose cuttings out of the sand, squeeze a number of them into a flat or basket, then jerk them out, their roots mostly all broken and mangled, to be ruthlessly stuck into a pot, is enough to make one's hair stand on end. I have witnessed some of this kind of potting by men who were held up by their employers as crack potters, but have also noticed that the man who potted 6,000 a day was a dearer man than he who did his work well and only potted 2,000. Of course the greater the number of plants that a man can handle in a day the more valuable that man is to his employer, provided he does not sacrifice quality to quantity. Some employees have apparently never learned that care and extreme slowness are not necessarily inseparable; at the same time it seems to me that some employers would do well to pay more attention to the quality of the work of their men.

After potting it is well to shade the cuttings from bright sunshine for a few days by spreading sheets of newspapers over them; as soon, however, as the roots reach the sides of the pots they should have the full sunlight; a light sprinkling of the foliage two or three times daily will be beneficial until they take hold of the soil. To keep the foliage perfectly clean they must be syringed with considerable force frequently, but the soil must never get sour and stagnant from over watering. As soon as the pots are well filled with roots the plants should be shifted on into three-inch, and soon until they are planted out.

ROBT. SIMPSON.

Anthracnose—Soil.

L. E. H., living in Indiana, has a house of sick roses and sends specimens for examination. His letter is too long to publish here. The plants he sent must have been in the mails a long time, as both foliage and stems were completely dried up, so much so that it was utterly impossible to come to any conclusion as to the character of the ailment. The roots however appeared to be all right and from the description given it is more than likely that the trouble is anthracnose. L. E. H. says he planted his roses in July in soil which had grown raspberries for ten years. He evidently does not follow the instructions that have been given in this paper so many times as to what soil is best for roses, or he would not have used any such soil as that he describes.

I have found that soil from under, or in close proximity to growing trees will seldom if ever grow good roses. I have not

studied out the reason for it, perhaps the roots give off some substance or matter with which the soil becomes impregnated and in that way spoiled for a time for certain plants, or more likely they take from the soil and carry up into the tree all that is available of certain elements of plant food such as lime, potash, etc. If this is true of large trees it is in all probability true also, to a less extent perhaps, of such plants as raspberries.

L. E. H. says that before the plants were in the benches four months they had received frequent doses of manure water, had been given as a top dressing at various times, cow manure, wood ashes, lime and commercial fertilizer. Frankly I think he has killed his roses with kindness. It is related of Voltaire that walking one day with a friend between two rows of beautiful linden trees, his friend complimented him on their beautiful shape and luxurious growth. "Why," says Voltaire, "they have nothing to do but grow." It seems to me that in our treatment of plants in the greenhouse we are often so very kind that we make it almost impossible for them to grow. If at the time of planting the soil is of good quality and has mixed with it enough manure and other fertilizers it will be well able to carry our plants along for six months without anything in the shape of liquid manure. A mulching of old manure about the 1st of September prevents too frequent drying off and saves a good deal of watering and in my opinion furnishes all the stimulant ordinarily that is required before the first January.

If the flowers are needed badly and the plants are not in too poor condition it is possible they may be pulled through. Would advise leaving off manure water altogether for a time and reducing the night temperature to 58°. The different varieties planted do not go together well, Meteor and Bride should not live in the same house. If the trouble is anthracnose can't do anything better as far as I know than continue with the carbonate of copper and ammonia; if there are any dead tips they will prove good propagators of the disease and should be cut out; clean off all fallen leaves and stir the soil every week.

Better not blame your grower unless you are sure he merits the blame, the same trouble might have happened with the best grower in the country, especially if he had no hand in the preparation of the soil.

ROBT. SIMPSON.

Roses—Area Under One Man's Care.

"Subscriber" wishes to know how many thousand feet of glass devoted to roses can be properly cared for by one man. That will depend a good deal on the kind of man; some men can do about twice as much work as others, and still both of them pass as experienced men. Something also depends on the kind of houses he has charge of, the way they are fitted up with ventilating apparatus, heating, watering facilities, etc. If everything is convenient and the houses are not very small one man can handle nicely from seven to eight thousand feet. If he has to do his own firing I would deduct from this from 10 to 20 per cent. This of course has reference to roses planted out for cut flowers.

ROBT. SIMPSON.

Grubs.

A florist from Sharon, Pa., sends specimens of an insect which he thinks is destroying the roots of his roses and causing the leaves to turn yellow; he has an

idea that bone meal has had something to do with their origin, has tried air-slacked lime and tobacco dust at the root as an exterminator, but they have failed to do the work.

This insect or grub is often found in manure that has been mixed with the soil or used as a top dressing while in a green state, but I hardly think it is responsible for the yellow foliage. I have seen them in quantity in the rose benches very frequently, but never saw them working among the rose roots, or any roots injured in such a way as to throw suspicion upon this little grub. From what I know of it and its surroundings I should suppose it was entirely harmless.

Strong wood ashes or soot will usually put an end to this class of insects in a very short time.

ROBT. SIMPSON.

Eel-Worms.

I wish to correct an error I unintentionally made in my communication, printed in the AMERICAN FLORIST of February 15.

The error is in the article on "Eel-worms." In next to last paragraph, last sentence, it should read thus: "A case of plant *symbiosis* (printed *symbiosis*) in which the consortism is essential for the extraction of free *nitrogen* (not oxygen) from the atmosphere for the nourishment of the plant."

A. J. PENNOCK.

Treatment of Palms.

My kentias, latanias and cocos do not do well. They do not grow and the ends of the leaves are dead. What shall I do for them? I heat with hot water and keep a temperature of about 60° at night and 80° during the day.

F. I. V.

The most frequent cause of the ends of the leaves of palms dying is a lack of sufficient water, though the same trouble will also appear in some instances from defective root action and an overplus of water. The temperature mentioned by our correspondent would answer very well for the species noted, providing the other necessary conditions were present, but temperature alone will not do the work.

The soil for the three species mentioned, namely, kentias, latanias and cocos need not differ materially except that the cocos being the poorest rooter of the trio is benefitted by having a little lighter soil. A good loam to which is added a moderate amount of rather coarse sand and some bone dust, the latter in the proportion of a 6-inch pot full to a wheelbarrow load of soil, ought to answer very well unless the loam is very heavy, and in the latter case it will be improved by the addition of some peat, but not more than one-third in volume of the peat will then be required.

The pots should be drained with some crocks and the plants potted firmly, keeping the base of the plant just on the surface of the soil. Water thoroughly to settle the soil after potting and afterward as often as the soil becomes moderately dry—syringe thoroughly with a good pressure of water every bright day and give a little ventilation as soon as the house runs up to 75° to 80° unless the weather is very cold.

After March 1st some shading will be required, for by that time the sun is quite strong and while either of these palms will stand some direct sunlight, yet the color of the foliage will be better if partially protected.

If the plants are now in a very poor or unsuitable soil it would be the best plan to wash out the roots clean before repotting, then repot carefully as outlined above and keep the plants somewhat closer for a month or six weeks until they begin to root anew. W. H. TAPLIN.

New York.

Heavy vans bearing loads of plants have been a very frequent sight in the fashionable avenues during the past fortnight. Gay society events have been crowding close on one another in these closing days of the midwinter season and every day furnished a long list of these functions from every one of which some florist extracted honey in greater or less degree. Of striking or expensive decorations there have been but few, still the aggregate will be found to have been large in amount and the retail florists, as a rule, express entire satisfaction with the season's record. Valentine's day furnished plenty of work for everybody and the market, already cleaned up close to the supply, was inadequate to the special demand for this day, roses and carnations especially running short. Many fanciful designs were seen, some quite elaborate, but mainly of simple character, the favorite heart or double heart being the most in evidence. A pretty little device adopted by Warendorff was an open-centered heart of violets, about four inches across around which was twined a dainty chain of Roman hyacinth blooms. This was placed on top of each box of cut flowers sent out when the price received was sufficient to warrant the expense.

Mr. L. M. Noe was presented by the employees of the New York Cut Flower Company with a handsome silver-headed cane when retiring from his position as manager. Mr. Noe responded with a brief but appreciative speech of thanks. Jos. Millang has left the employ of the company and is now with his brother Frank at 34th street market and Chas. Millang has resigned his position, to take effect on March 1.

Chas. Thorley and family have gone south for a two week's sojourn.

Philadelphia.

The social season wound up with a grand flourish. Everybody seemed to have their hands full of business and the items of expense caused by telegrams, car fares, etc., hunting up flowers enough to fill orders, was considerable. Retail storekeepers received telegrams from florists out of town to help them out, but with little or no success, as it was all they could do to get their own orders out satisfactorily, stock being so scarce. Considering the extra demand and short supply one might have expected prices to advance a little, but they did not. Christmas is the only season that affects the growers' prices, they jump them up during December, reach the climax at the holidays and then come down by degrees as the season advances irrespective of shortage or demand. Now that Lent has set in there will likely be a drop soon, but nothing has fallen as yet.

The selected teas bring \$10, second choice 6 to 8. Beauties, selected 6 per dozen, fair to good 3 to 5 per dozen. Brunners \$5 per dozen, Laings 2.50 to 3. Carnations, especially Scotts, sell well, \$2 is top price except for a few fancies and a good many go for \$1.50; \$4 is asked for the best valley, while much of it is sold at 2 and 3. Romans go slow at 2 and 3. Daffys are plentiful at 3. Tulips sell slowly at 3 and 4. Violets are in good

demand, \$1 per hundred for the best average grade, with the smaller stock at 50 to 75 cents. The California is now coming in from a number of growers mostly in small lots. Rohrer of Lancaster has the best; he puts 50 in a bunch with plenty of leaves. Violet growers as a rule, that is those who send to this market, do not give enough attention to bunching their flowers. Violets are mostly sold in bunches as they come from the grower, the storekeeper not having time to rearrange them, and for them, and for this reason they should be put up nicely, in bunches of 50 preferably, with a generous border of leaves. Some of the leafy varieties should be grown for this purpose alone as many of the growers do not seem to be able to get leaves enough from the double varieties to border their bunches and keep the flowers up together. This is not a small matter, it is important, try it and see if it will not affect the returns.

The February meeting of the Horticultural Society was held in the hall of the College of Physicians last Tuesday evening. Prof. Bailey not being able to be present Prof. MacFarlane of the University of Pennsylvania gave an interesting account of the Botanical Garden now being laid out and to be made a part of the University grounds.

There was a decided drop in the temperature last Sunday evening, when from 40° above zero in the early afternoon it fell to 2° to 6° below by Monday morning. Although the change was sudden we hear of little damage except that two or three of the stores lost whatever they happened to have in their windows.

Hugh Graham's new store is approaching completion and he hopes to be able to occupy the building early in March.

Robert Craig's new araucaria house is about completed, and will soon be filled with this stock. We believe this is the first house erected in this country to be devoted entirely to growing this plant.

K.

Boston.

The lecture at Horticultural Hall on February 15 by Prof. L. O. Howard of Washington attracted a very large audience. The subject was "Some scale insects." Judging from the number and hideousness of the magnified images thrown upon the screen by the stereopticon there are certainly some of them, and the title of the lecture may be called a very modest one. After a description of the various species and their habits the lecturer treated of the various remedies used to check these pests, and spoke hopefully of the prospects for legislation in various states to prevent their dissemination. The lecture was very interesting, so much so, in fact that two gentlemen forgot to keep their eyes on their overcoats, which were slyly appropriated by thieves who took advantage of the darkening of the hall during the use of the stereopticon. There was a small group of new plants on exhibition from T. D. Hatfield, gardener to Walter Hunnewell, among which were Begonias Paul Bruant and Gloire de Sceaux, Impatiens Sultani compacta and a very showy seedling coleus.

The cut flower business under the incentive of the closing week preceding Lent has been booming. There has been a great shortage of roses especially, the very cold weather lending a hand also to keep the supply down just at the time when the stock was most needed. Formerly the occurrence of such a contrary spell would

have sent prices soaring high, but somehow the disposition to do this seems to have gone out of fashion, and while good stock has gone readily at outside prices yet these prices cannot be called steep or exorbitant. Carnations have remained steady all through. Violets are in fair supply on the average, the only exception being Valentine's Day; when the demand for them was something extraordinary. Bulbous stock remains dull and unappreciated.

Hon. C. W. Hoitt of Nashua was the recipient of a gift last week in the form of a handsome dinner set, presented by his friends among the Boston florists. The judge has just finished a fine new residence.

The estate of the late J. P. Spaulding at Dorchester is being cut up, and a new street will run through the site of the greenhouses. Oswald Ralph, the gardener, will start in the florist business on his own account about April 1.

James Delay & Son have moved into their new store, which is one of the handsomest in the city, at 194 Boylston street.

Visitors in town: Walter Mott, representing H. A. Dreer, Phila.; Paul Berkowitz of H. Bayersdorfer & Co., Phila.; and A. H. Wingett, Lenox, Mass.

Boston sent a goodly delegation over the Fall River Line to the carnation meeting at New York on Wednesday night.

Chicago.

Business kept up very well all the earlier part of this week, though naturally it slackened somewhat after Ash Wednesday. Prices remained the same as last week; the scarcity in roses continued, and as there was a brisk demand for the light color Brides and Bridesmaids of the highest grade stood at \$10, running down from this to \$7 and \$8. The strongest demand was for the light-colored stock, there being a good deal of funeral work. Beauties were in their usual demand. Carnations are becoming very much more plentiful, and the price is declining.

Among bulb stocks Harrisii is rather overplentiful, and sells for \$6 and \$8. Daffodils go slowly in this market, and the same may be said of tulips, except some extra stock, such as the pink La Reine. Valley improves in quality, also freesia, which is now quite plentiful. Violets are much more plentiful, and some days move rather slowly. From now on to Easter business will naturally be quiet, and as soon as the cold wave is past we are likely to see a great increase in the amount of stock sent in, so a marked drop in prices may be confidently expected. It is quite likely we shall see a decided change the coming week.

Mr. T. J. Corbrey returned from California last Friday morning.

Mrs. O. P. Bassett, accompanied by her daughter, Mrs. Washburn, started for New Orleans on Friday, with the intention of making a six weeks' visit.

Toronto.

During last week there were two or three sunny days which helped to increase the supply and improve the quality of stock a little, and during the early part of the week trade was fairly brisk, but the latter part owing to zero temperature fell off considerably—18° below was the lowest recorded here.

The Horticultural Society at an adjourned meeting last Tuesday made for itself a constitution and by-laws, the meeting was breezy (gentle zephyrs only) and there were several close votes, but the majority were on the right side and



VIEWS IN THE STORE OF MESSRS. EDLEFSEN & SCOTT, MILWAUKEE, WIS.

of course your correspondent was amongst the majority.

A horticultural paper for the Dominion of Canada published in Toronto is now one of the possibilities if not of the probabilities of the near future; the gentlemen who are promoting the undertaking are well known horticulturists and I don't see why success should not crown their efforts, although I may say, without wishing in the least to throw cold water on the project, that I think it would have been better to wait a year or so until the two horticultural societies now in existence had been brought to a high state of efficiency; if every energy had been devoted to the latter object this year there would have been foundation to work on. However, perhaps both objects can be accomplished at the same time, there are lots of workers, if you can only get them to do something, and the field is large. Success to the (as yet) unborn babe. E.

Washington.

Trade has been very good the past week, notwithstanding the inclement weather, which has prevailed the past two weeks or more, making flowers very

scarce. With the exception of bulbous stuff everything has been exceptionally scarce. It was out of the question to get good roses. The colored ones were pale and sickly; even the whites gave evidence of the want of sunlight. Carnations were not up to the standard, and scarce at that; violets poor and very scarce. There is a general complaint that the red tulips are not up to the standard this season. It is said this is due to inferior bulbs; some of the growers noticed this when their importations of bulbs were opened and entered a complaint. Carnations have been more plentiful this season than ever (excepting the past two weeks), but yet not sufficient to supply the demand.

Azaleas in pots have sold well this season, especially those selling from \$1.50 to \$4 each. Some of our florists have done well with cyclamens in pans, having from 3 to 5 single bulbs in a pan, which retailed from 75 cents to \$2. There has been a good trade in *Adiantum Farleyense* in pots, especially those in small pots selling from \$1 to \$3. *Farleyense* fronds retail for \$2 per dozen, Beauties for 3 to 10, Brides from 1 to 3, Golden Gate from 1 to 4, La France 1.50 to 5, Bridesmaid

from 1 to 3, Perles 1.50, Meteors 1 to 3, carnations from 50 cents to \$1 for extra fair ones, Romans 50 cents, callas \$2 to \$3, Harrisii 3, violets 1, tulips 50 to 75 cents, jonquils 50 to 75 cents. Asparagus is scarce from 75 cents to \$1. There has been a greater demand for fern pans this season than ever, especially those filled with *adiantum*. But I am told there is no money in them; prices too low. REYNOLDS.

Pittsburg.

The weather this week has been a very great satisfaction to those who believe in the groundhog as a prognosticator, for we have experienced regular winter cold, on Monday the thermometer ranging from 3° to 8° below zero, according to location, and continuing low down nearly all week, but with it all the florists have been kept busy. The amount of business has been very satisfactory, although with the advent of Lent social events will not be so numerous or grand, consequently they are expecting the natural decline in decorative trade during the next few weeks.

A new floral establishment opened for business on Monday at 539 Smithfield street. It will be conducted by Mr. Walter Breitenstein, and devoted to cut flower trade and cut flower decorations, endeavoring to accomplish new effects in decorating without using palms, etc., as much as heretofore. The store room is fitted up without the usual counter; instead several handsome tables are used, and the window has for display handsome vases on table and floor, with flowers very artistically arranged, instead of the usual raised platform enclosed. The electric lights are concealed, so as not to be visible looking into the room, so that there is nothing to detract the customers' attention from the display of plants and flowers. At the rear is the room for office purposes, with necessary conveniences and supplies for all kinds of floral work. Mr. B.'s well-known skill and artistic talents ought to enable him to achieve the success his friends hope he will attain.

Wm. F. Drewes has two new houses about completed. They are 215x20 feet each, and are arranged so as to give him a front on 5th avenue, number 5515 and 17. He is putting in in addition to the old one a new 30-horse-power steam boiler, and will have everything in first-class condition to take care of his increasing trade in cut flowers, decorative and bedding plants. He has four other houses 75x18, which are well filled with good stock. The location is a very desirable one situated in a first-class residence portion of our city, and where he will no doubt build up a large and paying business.

Zieger Brothers at Aspinwall, a suburb of Allegheny City, are also extending their business; the past year they have added five new houses to their place; three of these are 100x20 and two 100x10. This gives them nine houses in all, one devoted to roses, one to carnations, one to palms, one to Harrisii and calla lilies, and the rest are filled with bedding plants. Among these are a very large number of geraniums which will be in prime condition for Memorial Day. They had a very fine decoration at the Monongahela House on Thursday night, the arrangement of which was greatly admired.

The Masonic fraternity seemingly appropriated Thursday night for a festival night. Banquets in Allegheny by two commanderies and one in Braddock by the lodge there and a "swell" reception

by the Duquesne Commandery at Kenwood Lawn, East Liberty. Elaborate decorations were the order of the day, or rather the night. The last two were under charge of Elliott & Ulam, and fully held up the reputation of this firm for fine work.

One of our leading stores in gentlemen's furnishings having been entirely remodeled, the proprietor gave a grand opening on Thursday, which enabled several of the florists to furnish handsome baskets and floral designs for it, they having been ordered by the parties in New York, Boston, etc., from whom he purchases goods; it proved quite an attraction to visitors, as well as a benefit to home florists.

Mr. W. McCrear, with James Dell, is out again after being confined to the house for a while.

Mr. Ed. Thiel, who was injured on the railroad last fall, has left the hospital, and is now at his home in Glenfield, but is not able to stand or walk on crutches even. His friends hope he will recover more rapidly. REGIA.

St. Louis.

The cut flower trade last week was not so brisk, but seeing the rush for flowers at the wholesale houses one would think that every florist in town was busy; everybody cannot be supplied, as flowers of all kinds are very scarce. Good Beauties are not to be had; whether it is no sun or from some other cause, these large roses are not up to the mark. Only a limited supply of roses come in and are bought up at sight at good prices. Beauties still sell at \$5 per dozen for the best; Meteors from \$6 to \$10 per 100, Brides extra good stock \$12.50, Bridesmaid \$10, Perles \$4 to \$6. Some very richly colored Woottons grown by F. J. Fillmore bring \$10. All good roses are in excellent demand and bring good prices. Same can be said of carnations, fancy varieties bring \$2 to \$3, fine Daybreaks and Scotts sell on sight. Valley is in fine form just now and goes at \$4. Romans are firmer than they were and plenty of them just now at \$2 to \$4. Dutch hyacinths are worth \$5 to \$8. Daffodils single and double, are very slow, selling for \$2 to \$4. Tulips that come in are good but are selling slow at \$2 to \$4. Callas still sell well at \$10. Harrisii are plentiful now, but still hold at \$12.50. Southern violets have made their appearance and are good and large; they sell for 10 cents per 100. Home grown sell at 25 cents; smilax is selling well just now but not scarce.

St. Valentine's day was exceptionally good with all the florists all along the line, commission men say the same. A few warm bright days of sunshine brought in a few florists to the market with plants, mostly azaleas, cinerarias, hyacinths and cyclamens which sold out in short order.

The decorations at the Cycle Show this week at the Grand Music Hall Exposition Building was by the Schureman Floral Co and plants by Sanders & Beneke, the decorations were elaborate.

The meeting of the Florist's Club Thursday afternoon was the most largely attended meeting in years; the exhibition of new carnations brought out every florist who could spare the time to attend. The following firms were exhibitors; Meyers & Samtman of Chestnut Hill, Pa., sent Della Fox and Annie H. Lonsdale, E. G. Hill of Richmond, Ind., showed Triumph, a very fine pink, Armazindy and Jubilee. Fred Dorner & Son, Lafayette, Ind., had on exhibition Mrs. G. M. Bradt, Dazzle, Storm King, Bridesmaid and Goldfinch. George Hancock & Son,

Grand Haven, Mich., sent Ivory, a fine white and two new seedlings, one a large red, the other a light pink; they were numbered, the red 19 and the pink 42. The St. Clair Floral Co., Belleville, Ills., showed Uncle John, Wm. Scott, Daybreak, Albertini, Portia and Stuart. E. J. Cloud, Avondale, Pa., sent the new Trilby and Uncle John. Henry Aue of Lindenwood showed some good Daybreaks. F. J. Fillmore sent a large bunch of fine mixed carnations that were well grown. Della Fox, Ivory, Annie H. Lonsdale, Jubilee, Triumph, Mrs. G. M. Bradt, Dazzle, Bridesmaid, Trilby and Stuart were the center of attraction. A committee of three, consisting of E. W. Guy, Fred Ude, Jr., and C. A. Kuehn were appointed by the president to make a report on the carnations exhibited.

The report was as follows: The best reds, Dazzle and Jubilee; the best pink Della Fox and Triumph, in white Ivory and Annie H. Lonsdale; the best variegated Mrs. G. M. Bradt and Armazindy. After this the club proceeded with the regular business. The applications for membership were as follow: Chas. G. Fleckenstein and Al Bauer, commission men, Gus Ude, grower, and Robert Ayers, retailer. The exhibition committee made their reports and the preliminary list is now in the hands of the printer. The club extended its sympathy to Mr. Wm. Pape at the death of his son last week.

A motion was made to auction off the blooms sent to the club. Mr. John W. Kunz acted as auctioneer and they all brought good prices; after this the club adjourned until Thursday March 12, at 3 p. m.

J. M. Jordan leaves Monday night for New Mexico, to be gone twenty days.

Arnold Ringier for W. W. Barnard & Co., Chicago, blew in town this morning with the Salvation Army. I learn from Mr. R. that he will join that order. He is here to sell bulbs. I assured him that no florist in St. Louis had a dog that would show his teeth and growl when he says "bulbs."

Max Herzog is once more ready for business. Mr. Chas. Wende rebuilt his houses; he also has plans for a 6-room residence with a glass walk to the greenhouses. Mr. Herzog wishes to thank all the florists through the FLORIST who sent him plants to restock his houses.

The North Floral Co. is cutting the best carnations just now, and in large numbers.

At the Bowling Club Monday three games were rolled; for the first game Weber and Beneke were captains and Beneke's side won; the second game had the same captains and Beneke's side won again; the third game Weber and Kuehn were the captains and Kuehn's side won. The largest three games rolled were by J. J. Beneke, 634; F. C. Weber second with 503, and C. C. Sanders third with 501. The highest single score made by J. J. Beneke, 238; second, F. C. Weber, 206; third, C. A. Kuehn, 192. Mr. Chas. G. Fleckenstein has become a member and will roll at the next meeting. J. J. B.

Cleveland.

Owing to President Scott's unfortunate accident and through that the unavoidable necessity of postponing the executive committee meeting in Cleveland on Feb. 25, the arrangements for their entertainment have necessarily been called off for the time being. Mr. Scott has our sympathy and it is hoped that he will soon be in shape to pay us the contemplated visit, together with the balance of the committee.

Up to the 16th the weather maintained its customary mildness, but on that Sunday night the mercury slid down with a silent celerity that came near catching some of the growers napping. Monday morning found the temperature down to seven below zero, much the coldest weather this winter has yet brought us. As it is, at the time of writing there are some vague rumors concerning damage by frost, but it has so far been impossible to find any considerable foundation for the reports.

Business jogs along as usual, with nothing in particular to record. Prices retain the level that they dropped to shortly after the holidays. Pretty much everything that is good sells, but nobody is getting very rich at going rates. Maybe the advent of Lent will develop a glut to knock the bottom out of things in the old sweet way.

Mr. Boddington, representing Pitcher & Manda, and Mr. Reukauf of Bayersdorfer & Co. are in town. A.

San Francisco.

Business of late has been very good, in fact there is a decided scarcity of good roses. This is particularly true of Beauties. Brides and Bridesmaids are also scarce, and are selling at a good figure. The general bulk of Testouts here at present are rather short-stemmed, but as it is now anything in the way of a rose can easily be disposed of. The great rush of violets is past also, and everybody is glad. Californias are getting quite scarce now and the quality is not near so good as several weeks ago. There has been quite a run on Swanley White lately.

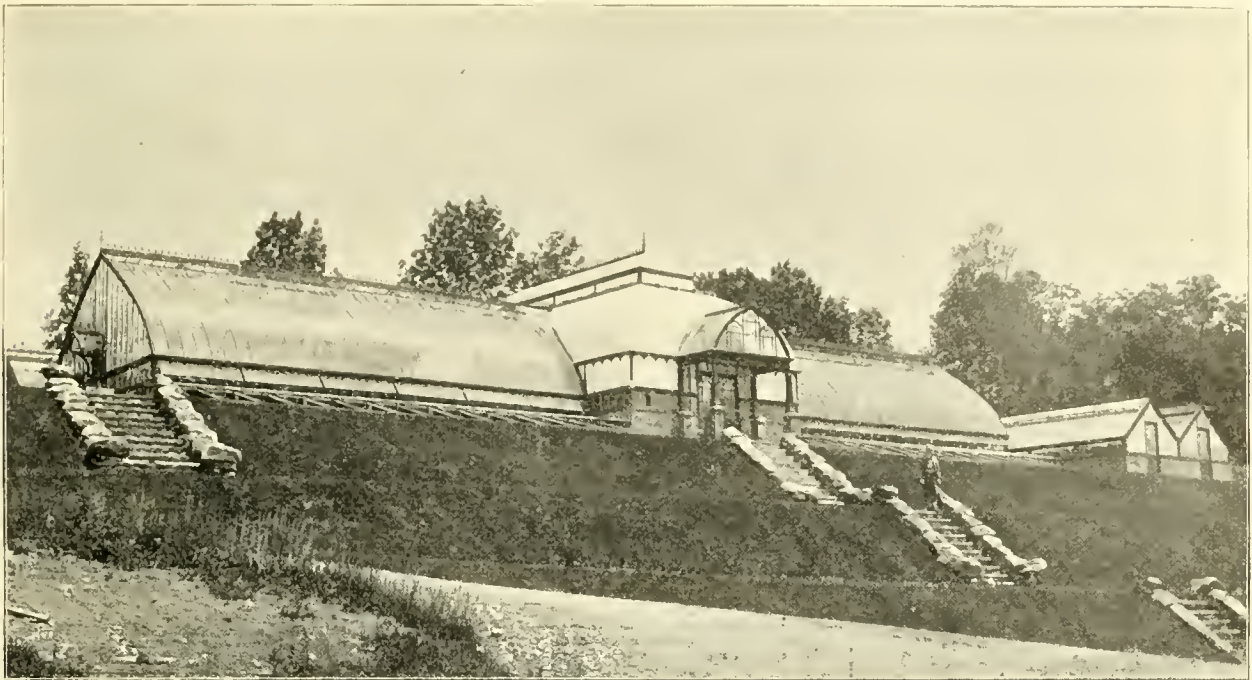
Lily of the valley is in good supply just now and sell very well. The quality has improved somewhat over that of a few weeks ago. Lilium Harrisii is not coming in very rapidly as yet, the growers preferring to hold their stock back as much as possible for Easter. They bring \$2.50 per dozen. Nearly all kinds of bulb stock are in over supply, especially tulips, hyacinths and narcissus. Smilax is a very scarce article here now and there is scarcely any to be had at \$1 per dozen, the strings being generally short and thick. Ferns also are scarce.

The Santa Rosa Rose Association is the name of a new society formed at Santa Rosa. They are out with a program of a roseshow and carnival to be held April 30 to May 3. As this is to be the initial show of this society it is to be hoped that it will be a success.

Among the wholesale men we find that there is quite a lot of outside shipping to Portland, Tacoma and other adjacent cities at present, the prices realized being fairly good. This is the season of the year that these places always turn to California for their supply. METEOR.

Rochester, N. Y.

A brisk demand in the cut flower line with only a limited supply causes much inconvenience to the retailers, all flowers with the possible exception of tulips and hyacinths are scarce and have been so for the past two weeks, even violets, which always have been rather plenty in this market, are coming in very slow and in small quantities at present. Carnations, especially the light pinks, can only be supplied in limited numbers, and as to orders for roses, many a would-be customer had to go without them or take bulbous stuff instead. Most likely this scarcity will not continue very much longer, for there is every prospect of plentiful crops of both carnations and



CONSERVATORIES AT LENOX, MASS

roses coming in shortly at a number of local places.

The carnations at Greensmith's are remarkably vigorous and healthy, and just beginning to flower profusely. His houses are new, but the heating apparatus has not been working satisfactory all winter, although frequent alterations have been made in the piping, etc., consequently the houses could not be kept much above the freezing point in severe weather, and Mr. G. was unable to cut a great many blooms from his plants, but now, everything being in good working order the buds are forming very fast and are of great vigor and strength.

At Salmon's also both carnations and roses were off crop lately, but are now growing and producing buds in fine shape; his violets also look very promising. Several of our growers are picking violets in large quantities, but these are not enough to supply the demand for this favorite flower.

There are two places here where they claim to have a pure whitesport from the carnation Daybreak identical in growth and shape of flower with the parent plant. If this sport proves to be constant and really has the same constitution as the Daybreak, it will be a great acquisition, for although in some localities this carnation does not grow as well as others, most growers are very successful with it and doubtless would be so with its sport.

F. J. Keller left for New York last Thursday on a business trip and will remain away for a week or ten days.

J. B. K.

Conservatories at Lenox, Mass.

Our illustration represents a range of iron frame greenhouses recently erected at Lenox, Mass., for Mr. Anson Phelps Stokes. The length of the front range is 150 feet. The houses are 24 feet wide, and the height to the dome of the central palm house is 28 feet. In the rear are vineries, peach and propagating houses.

The demand in this country for such structures and the facilities for their erec-

tion from American manufactured material is a development of recent years, and it is gratifying to recognize that our greenhouse builders have been able to meet the requirements of modern taste by the production of such fine houses as are here shown. The builders, Messrs. Thos. W. Weathered's Sons, state that in the conservatory just completed for Mr. H. H. Cook, out of 184 boxes of 16x24 American glass used there were but two boxes of breakage and culls, which is certainly a most creditable showing for the American greenhouse glass industry.

Worcester, Mass.

With plenty of good flowers on hand trade runs along fairly steady though prices are a little easier. The supply of roses, carnations and violets is about equal to the demand with the exception of good white carnations (if we were to put an "ad" in the *FLORIST* it would read: Wanted, a good white carnation).

Bulbous stuff is very plentiful and very fair, though as yet we have had no good tulips; Harrisii are selling well and we have enough to supply the demand; valley is in good demand and excellent quality.

The schedule for the chrysanthemum exhibition is in the hands of the printer and the committee will continue to make every effort to hold a successful show. President Hadwen is enthusiastic and is doing much to encourage those having charge of the affair and if the amateurs and growers will only respond to the liberal premium list and grow some good stuff, there will be no such word as fail.

Of the new carnations tried in this vicinity this season Bridesmaid is the best, and it looks as if this carnation has a future before it; as grown here by Lange it is a very fine flower, grand color and habit and as clean as a whistle. Rose Queen is a strong grower and has shown no disposition to rust, is fairly free and the color is good, but it bursts badly; we will give it another trial. Storm King, grown in a house with McGowan, temperature 60°, has made a very poor showing, and under this treatment is

worthless, what it will do with us under cooler treatment next year will tell. Bride of Earls Court is very rusty, but throws some magnificent flowers, stem rather weak and fully one-half of blooms come with a broken calyx; it is very prolific. Meteor comes fine color and habit and is free from rust, but rather too single and has a tendency to go to sleep rather too soon.

Prof. Geo. E. Stone of Amherst Agricultural College read an essay on "Parisite Fungi" at the winter meeting of W. C. H. S. January 30.

W. B. Warner has started into retail business at 301 Main street. A. H. L.

San Jose, Cal.

Trade in this place has been very active for the last month, and everything is bringing good prices, with the exception of violets. Roses are in over-supply just now, and prices have weakened considerably. Bridesmaid and Brides bring 50 cents a dozen, while Beauties cannot be had at any price. Pansies sell very rapidly at 30 cents a dozen. Bulbous stock moves slowly. There is no Harrisii to speak of to be seen now, although quite a lot were here several weeks ago.

At Mr. E. W. Parsons' place everything is looking well, particularly the roses. His Bridesmaids are very fine indeed, also the Brides. They do not get many Beauties. Mr. Parsons is a great admirer of Mrs. Pierpont Morgan, and intends to plant it quite extensively this summer.

In carnations they have several surprises in store; one in particular is a new striped seedling after the style of Helen Keller, but said to be a great improvement on that kind. Mr. Parsons has named this new variety Carnival. Several blooms of it have been sent to the east, and Mr. Parsons expects to hear very favorably of them. This place is now under the management of Mr. Sneike Parker, who succeeded Wm. Nesbitt.

A visit to Emile Bourguignon's place showed his roses, particularly Bridesmaid, to be in fine shape. Mr. Bour-

guignon also grows several houses of cucumbers, which he finds to be a paying crop. METEOR.

Cincinnati, O.

A special meeting of the Cincinnati Florists' Society was held on February 15 and called to order by President Gillett. The object of the meeting was to extend an invitation to the American Carnation Society to meet here in 1897. The meeting was well attended, and the boys were all in favor of having the society come to the Queen City next year.

Business the past week has been very good. Roses and carnations hold their own, and sell at good prices. I am sorry to report the illness of Mr. Rich. Witterstaetter; he is still confined to his room; the boys wish him a speedy recovery.

K. Wolf, one of Cumminsville's popular florists, was married two weeks ago to a charming young lady of that place; quite a surprise to his friends; accept our best wishes. H. SCHWARZ.

Lexington, Ky.

Mr. J. A. Keller intends to add one more carnation house to his plant. This house will cover 20x100 and will run east and west with the short span to the south.

Mr. Keller grows many excellent carnations and has good success with novelties, such as Rose Queen, Uncle John, etc. As a white carnation Uncle John seems to be his especial favorite; it is certainly an excellent carnation as grown here.

J. D. Yarrington has built three 14x60 houses, adapted for miscellaneous stock. Business is quite brisk all along the line. HOMO.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—In greenhouse; steady worker; state wages. Address ROBERT MAIN, 64 North St., Gloversville, N. Y.

SITUATION WANTED—As working foreman; 10 years' experience in all branches, steady and reliable, married. RELIABLE, care Am. Florist.

SITUATION WANTED—In a commercial place, by a young man of 3½ years' experience. State wages with board. F. G. BEHLING, Y. M. C. A., Scranton, Pa.

SITUATION WANTED—As florist and gardener by a married man of small family; good habits; private place preferred; good references. F. B. care American Florist.

SITUATION WANTED—As manager or foreman; a practical grower of cut flowers and decorative plants; references. Address MANAGER, 1019 Vine St., Philadelphia.

SITUATION WANTED—As grower of roses, carnations, violets, palms, ferns, forcing all kinds of florists' stock; States preferred. Address GEO. NORTON, Box 359, Brockville, Ont., Canada.

SITUATION WANTED—By a first-class florist as foreman; excellent rose and cut flower grower; good propagator and general plantsman, single, age 27; best of references; West preferred. Please address GROWER, care Am. Florist.

SITUATION WANTED—By a young man skilled in growing general greenhouse stock, sober and industrious; 8 years' experience; permanent place preferable to high wages; east preferred. Address WESTERN, care American Florist.

SITUATION WANTED—By young man, age 30, single; thoroughly experienced in the growing of roses, carnations, chrysanthemums and general greenhouse stock. Good designer and decorator. References. Please state wages. Address J. COOK, 4920 Drexel Boulevard, Chicago.

SITUATION WANTED—By practical florist and gardener, 10 years' experience in greenhouse and landscape gardening reliable and steady; Swiss, age 33; best of references; competent to take charge of private place. Address ALFRED WAGELIN, Morgan Park, Chicago.

SITUATION WANTED—By well educated, energetic German florist; 18 years' experience; good manager; first-class breeder, designer and all round grower. Have been employed at some of the best establishments of Germany, France and Switzerland; in this country 6 years; in present place 4 years. First-class references. Address R. W. care American Florist.

PROFITABLE SWEET PEAS.

FROM careful personal inspection of all the new and old varieties in the famous pea growing districts in California, and from actual selling qualities shown in the San Francisco Flower Market—the largest in the world for this flower—we find the following seven kinds, for size, stems, prolific habits and other most desirable qualities unequalled. They comprise the leading salable clear colors which are always appreciated. Fill seven vases each with 100 sprays of these, and set them in a row in your window, and you need fear no competition in your trade on this flower.

BLUSHING BEAUTY, clear Daybreak pink.
HER MAJESTY, pure solid rose.
FIREFLY, bright fiery scarlet.
EMILY HENDERSON, best florists' white.
COUNTRESS OF RADNOR, soft lavender.
MRS. ECKFORD, largest good yellow.
BLANCHE FERRY, early pink and white.

PRICES.

1 ounce each, 7 ounces, postpaid, 35 cts.
2 ounces each, 14 ounces, postpaid, 60 cts.
1-4 pound each (1¼ lbs.), postpaid, \$1.00.
YOUR CHOICE, prepaid, ounce 5 cts., 1-4 lb. 20 cts.; 1 lb. 50 cts.
EMILY HENDERSON, lb. 40 cts.; 3 lbs for \$1.00.
AMERICA, the new scarlet and white, pkt. 15 cts., 5 pkts. for 60 cts.
CUPID, dwarf white, pkt. 25 cts.



NEW YORK: 26 Barclay St. **VAUGHAN'S SEED STORE**, CHICAGO: 84-86 Randolph St.

WANTED—Price lists of plants, seeds and florists material. A. B. HART & Co., Henderson, Ky.

WANTED—A Nicholson's Illustrated Dictionary of Gardenlag, second-hand; must be honest and sober. M. JENSEN, 121 Barclay St., Chicago.

WANTED—A good young industrious man for general greenhouse work; must be honest and sober; state wages wanted. ERNST NITSCHKE, Dallas, Texas.

WANTED—At once, a good grower of carnations, violets, chrysanthemums, etc.; state wages wanted, etc.; when writing address VIOLET, care American Florist.

WANTED—A competent commercial florist; must understand the growing of roses, carnations and chrysanthemums and general stock. A. KLOPPER, 208 Smithfield St., Pittsburg, Pa.

WANTED—To buy half-interest in a good paying florist business, or to learn of some good opening for a new establishment in a town of 10,000 to 15,000. Address W. H. D., care Am. Florist.

WANTED—The address or information of Martin Magnuson and Haas Anderson, the former employed in Chicago when last heard from; the latter, in Austin, Texas six years ago. Address OLAF OLSSON, 405 Guadalupe St., Austin, Tex.

WANTED—A first-rate working foreman; 25,000 feet of glass. Roses, carnations, mums, palms, ferns and bulbous stuff. Married man. Wages, free house of 5 rooms, and \$15.00 per week. Must be reliable. When writing give address of last employer. Address JOHN RECK, Bridgeport, Conn.

WANTED AT ONCE—A good working florist to take charge of my greenhouses; one who thoroughly understands growing roses and carnations for cut flowers; must be industrious and sober and understand steam pump and boiler. Send references. One with experience around Chicago or east preferred. A good steady situation for the right man. 8,000 feet of glass. Everything in prime condition. Wages, \$30.00 per month with, or \$45.00 without board. Address Box 51, Edwardsville, Ill.

FOR SALE—Fremont greenhouse. Business and location good. J. STARKEY, North Bend, Neb.

FOR SALE—Good paying retail florist's establishment in live city; price moderate terms easy, good trade. Write and I will explain in full. Address RETAILER, care American Florist.

FOR SALE—Greenhouses and market garden establishment, including ten acres good vegetable land, with dwelling house, stable, sheds and tools; houses well stocked and everything in first-class order; terms easy. For particulars address A & B, care American Florist, Chicago.

FOR SALE—Fifteen greenhouses, five acres, dwelling, barns, completely equipped florist's establishment and business for sale; located in the 29th ward, Flatbush, Brooklyn, N. Y. A fine opportunity to obtain an established business. Apply to HENRY W. SHERRILL, 13 Willoughby St., Brooklyn, N. Y.

FOR SALE—22 greenhouses and 5 acres land, about 1 acre under glass, with or without land and in good condition houses filled with stock; will be sold at a bargain if taken at once, as I intend to go out of business. For information address MR. P. J. DEUSTER, 948 Winnebago St., Milwaukee, Wis.

FOR SALE.

Established vegetable and flower business; five acres of land, five greenhouses 7,000 feet of glass; everything complete to carry on the business; a paying business and splendid location. Price \$5,000. Address X Y, care American Florist.

Mention the American Florist when writing to advertisers on this page.

300 Acres in Nursery. 1 Acre of Glass.

Specialties for Florists.

Per 100
Cardenias, 8, 12 and 18 inches... \$5.00, \$10.00 & \$12.00
Crevillea, 12, 18, 24 and 36 in... \$6.00, \$8.00, \$10.00 & 15.00
Eugenia Jambos, fruit bearing, 18-24 inches, 12.00
Camphor, 12-18 & 26-40 inches... \$8.00 & 25.00
Guava Red Cattle, bearing size, 18-24 inches, 12.00
Magnolia Fuscata, 8, 12, 18-24 inches... \$10.00, \$12.00, \$15.00, 25.00
Olea Fragrans, 8, 15, 24 inches... \$8, \$12 & 20.00
Oranges & Lemons, grafted on dwarf stock, blooming size, stocky, 10-12 & 15-18 in... \$25 & 40.00
Otaheite Orange, bushy, 10 & 12-15 in... \$8 & 15.00
Stock of above all pot-grown, ready now to ship, and in best possible condition.
Fruit and Ornamental Trees, Rare Conifers, etc. Send for Trade List and Descriptive Catalogue.

P. J. BERCKMANS.

Fruitland Nurseries, AUGUSTA, GA.

Ismene Calantha,

OR WHITE AMARYLLIS.

EXTRA SELECT BULBS.

Very profitable for forcing or outdoor blooming.

\$2 per dozen; \$15 per 100; \$125 per 1000.

Also SAGOS, with from 6 to 36 leaves. Will exchange for Tuberous Begonias, Gloxinias and double white Primulas.

L. HEINL, Terre Haute, Ind.

FUCHSIAS.

... Choice Mixed.

GOOD ROOTED CUTTINGS,

\$1.00 per 100,

By Mail Prepaid.

S. O. STREBY,

Lock Box 77,

UPPER SANDUSKY, OHIO.

WANTED

For San Francisco, a thoroughly well trained man to take full charge of about 10,000 feet of glass. Must understand culture of cut flowers, principally carnations and all bulbous stuff, and possess a good knowledge of greenhouse culture of ferns, palms, camellias, azaleas, etc. Only one not afraid of work, and possessing best of references as to honesty and reliability wanted. Married man preferred. Wages \$75.00 per month, with increase, and a permanent situation to the right man. Address H. H. BERGER & CO., San Francisco, Cal.

ROOTED ROSE CUTTINGS

From choice flowering wood, free of disease and well rooted.

American Beauty.....	2½ cts
Brides.....	1½ cts
Bridesmaids.....	1½ cts
Meteors.....	1½ cts

Young Rose Plants.

In 2½-inch pots, ready about March 1st.

American Beauty.....	\$5.00 per 100
Mrs. Pierpont Morgan.....	6.00 "
Mrs. W. C. Whitney.....	6.00 "
Belle Siebrecht.....	4.00 "

ROOTED MUM CUTTINGS

Of the following varieties, 1½ cts.

The Queen.	Yellow Queen,
Niveus,	Daillidouze,
Ivory,	Lincoln,
Domination,	Whilldin,
Mutual Friend,	Bonnaillon,
Mrs. Jerome Jones,	Minerva.

Our New 'Mum KATE B. WASHBURN, 2-inch pots, 10 cts. Earliest large white.

#7—No order for less than 100 filled at these prices.

Bassett & Washburn,
HINSDALE, ILL.

ROSES ROSES

Forcing Roses, Everblooming Roses, New Roses, Hybrid Roses, Polyantha Roses, Climbing Roses, Noisette Roses, in fact all kinds of Roses. Chrysanthemums, Carnations, Geraniums, Fuchsias, Cannas, Coleus, Hibiscus, Begonias in fact a general line of all kinds of plants for Florists' use. Our trade list now ready. Send for it.

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LARGEST ROSE
GROWERS IN
THE WORLD.

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SPRINGFIELD, OHIO.

CYCAS REVOLUTA.

Orders booked now for fresh imported stems, fronds and roots cut off; best long-leaved variety. Delivery from March 1st. Cultivated Cycas always on hand, rooted and well established, at low prices.

Lil. Auratum, Spec. Rubrum and Album, Etc. Iris Kampleri, in 100 choice varieties. Japanese Maples, in best varieties. Camellias, Paeonies, Tree Ferns, Rhapis, Etc. Araucaria excelsa, choice cultivated stock at lowest prices.

For general Japanese stock apply to

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CLEMATIS Jackmanni, and all large flowering varieties, \$17 per 100

Rhododendrons, Snowball, H. P. Roses, Azaleas, Tree Roses, Paeonia Chinensis, Tree Paeonia, Double Flowering Crataegus vars, Lilacs, Hydrangea, Magnolia with buds, Etc., Etc.

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Branch of the Horticultural Co., Boskoop, Holland.

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REINBERG BROS.,

Wholesale Growers of all Leading Varieties of Roses and Carnations,

WILL OFFER THE FOLLOWING FOR SPRING PLANTING:

Roses in 2 1-2 inch pots.

	Per 100	Per 1000
AM BEAUTIES.....	\$5.00	\$40.00
C. TESTOUT.....	4.00	35.00
KAISERIN VICTORIA.....	4.00	35.00
GOLDEN GATE.....	4.00	35.00
BELLE SIEBRECHT.....	4.00	35.00
BRIDESMAID.....	3.00	25.00
BRIDES.....	3.00	25.00
PERLES.....	3.00	25.00
METEORS.....	3.00	25.00

Orders for less than 50 of any one variety not accepted. READY FOR SHIPMENT MARCH 1st.

Rooted Carnation Cuttings.

	Per 100	Per 1000
WM. SCOTT.....	\$1.25	\$10.00
TIDAL WAVE.....	1.00	8.00
DAYBREAK.....	1.00	8.00
PORTIA.....	1.00	8.00
NANCY HANKS.....	1.00	8.00
LIZZIE MCGOWAN.....	1.00	8.00
UNCLE JOHN.....	1.00	8.00
SILVER SPRAY.....	1.00	8.00

Free of rust. Ready for immediate shipment.

Orders for less than 100 of any one variety not accepted.

Send orders to **51 Wabash Ave., CHICAGO, ILL.**

HARDY ROSES—SPECIAL OFFER

Good for 14 DAYS ONLY from date of this advertisement.

To make room immediately I offer extra strong, vigorous plants, well established in 3 and 4-inch pots, one year old, on own roots of

MRS. JOHN LAING, ULRICH BRUNNER, BARONESS ROTHSCHILD, MABEL MORRISON, MERVEILLE DE LYON, MME. G. LUIZET, and a few GEN'L JACQUEMINOT, at \$8 per 100 for 3-inch, and \$10 per 100 for 4-inch, for cash with order.

Parties wishing good strong plants for bedding or forcing purposes should not miss this offer.

JOHN N. MAY, Summit, New Jersey.

ROSES

BEAUTIES, NERMETS, CUSINS, TESTOUTS, NIPHETOS, PERLES, BRIDES, BRIDESMAIDS, METEOR, HOSTE, LA FRANCE, WOOTTON, WATTEVILLES, AUG. VICTORIA, MORGANS. Rooted Cuttings. Cash with order. Owing to number booked, they will be executed in rotation to assure prompt delivery. Order early. Address for quotations.

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From 2 inch pots.....	per 1000,	\$125.00
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From 3-inch pots.....	per 100	18.00
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Ceraniums—Double and single, a fine assortment of bedding varieties, large proportion of semi-double scarlets, all labelled, at \$12 per 1000, or \$1.00 per 100.

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The Sunnywoods Greenhouses have the PARENT STOCK of the Bridesmaid rose. **FRANK L. MOORE,**
CHATHAM, N. J.

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	Per 100	Per 1000
La France, Meteor, Perle.....	\$1.35	\$12.00
Bridesmaid.....	1.25	12.00
Mermets, Bride.....	1.25	11.00
CARNATIONS—Daybreak.....	1.25	10.00
Portia, McGowan.....	1.00	8.00
VINCAS—Trailblaze.....	1.00	

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Inch, \$1.40; Column, \$14.00.
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wares pertaining to those lines ONLY. Please to
remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to se-
cure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

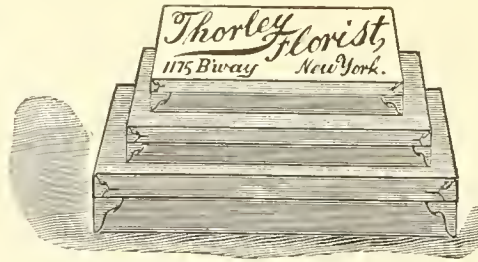
Duplication of Varietal Names.

In the excellent address delivered by President Dornier before the American Carnation Society at New York there is one subject touched upon to which we must take exception—the duplication of varietal names. In his reference to the carnation list published by the society Mr. Dornier recommends the separation of the list under different headings, which would certainly be very useful as giving an idea of the relative value of the varieties. But the suggestion that an attractive name, which has been already used by some variety generally discarded may be bestowed on a new variety, on the ground that the original is no longer in cultivation, can only result in confusion worse confounded.

To begin with, we can never be absolutely sure that any variety, worthless or otherwise, is entirely out of existence. It may not be quoted in the market or in catalogues, but there is always the possibility that it is grown in some out of the way place. If the purchaser who pays for plants of the new and excellent variety should receive in place of it the old and worthless variety bearing the same name (and having the prior right to it) he would have no redress, even should he lose the value of a winter's crop thereby. Similarity of color would not only cause confusion, but would also cast doubt on the good faith of the introducer, while a striking dissimilarity would give the same results as we already see in our chrysanthemum lists, where these annoying duplications occur.

The AMERICAN FLORIST holds that a name once on record should never be given to any other than the original variety, whether rose, chrysanthemum or carnation. Whether actually disseminated or not, publication identifies the name with that one variety. Our present list of carnations is happily free from duplicate names and it is to be hoped that introducers warned by the number of duplicate and too-much-alike names among roses and chrysanthemums will endeavor to steer clear of the same error.

We learn that the accident to President Scott took place while descending some outside steps near his greenhouses. He slipped on the ice and fell, breaking the larger bone of lower left leg, about six inches above the ankle. It is decided that the meeting of the Executive Committee of the S. A. F., the date for which is near at hand, shall be postponed until Mr. Scott has recovered sufficiently to be able to attend. At last report he was doing fully as well as could be expected. As Mr. Scott is of vigorous physique and in the prime of life it is fair to believe he will make as rapid progress as could anyone suffering such a fracture.



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CARNATIONS,
ALWAYS ON HAND.
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Asparagus Plumosus Nanus.

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SEEDS, BULBS AND ALL
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Roses, Beauty, extra grades...	20.00@50.00
culls	5.00@10.00
" Perle	2.00@5.00
" Testout	10.00@15.00
" Cusin, Watteville	2.00@6.00
" Bride, Bridesmaid	3.00@8.00
" Meteor, Morgnn	6.00@12.00
" Common mixed stock	2.00@4.00
Carnations, ordinary	50¢
fancy	2.00@3.00
Violets	1.00@2.00
Valley	1.00@2.00
Harrisli	6.00@8.00
Daffodils	2.00@3.00
Mignonette	2.00@10.00
Roman hyacinth and paper white	1.00@2.00
Tulips	1.00@2.00
Cypripediums	10.00@12.00
Cattleyas	30.00@40.00
Lilac, per bunch	1.00
Adiantum	1.00
Asparagus	50.00
Smilax	12.00
BOSTON, Feb. 19.	
Roses, Goutier, Niphetos	3.00@5.00
" Perle, Hoste	4.00@8.00
" Bride, Bridesmaid, Mermet	6.00@15.00
" Meteor	5.00@12.00
" Beauty	10.00@50.00
Carnations	1.50@2.00
fancy	2.00@3.00
Violets	75¢@1.00
Harrisli, callas	2.00@
Paper white narcissus	2.00
Romans	2.00
Freesia	1.50
Daffodils double	3.00
single	1.00@2.00
Stevia, Marguerites	1.00
Mignonette	2.00@
Cypripediums	12.00
Adiantum	1.00
Smilax	12.00
Asparagus	50.00
PHILADELPHIA, Feb. 19.	
Roses, Beanties	8.00@50.00
Brunners	25.00@40.00
Lalings	20.00@25.00
" best selected teas	8.00@10.00
" seconds and small stock	6.00@8.00
" Morgan	10.00@12.00
Carnations, general stock	1.00@2.00
selected and choice kinds	3.00@4.00
Harrisli	8.00@12.00
Valley	4.00@6.00
Romans and Paper White	2.00@3.00
Tulips	3.00@4.00
Violets	75¢@1.00
Mignonette	2.00@3.00
Freesia	1.00@2.00
Smilax	15.00@20.00
Asparagus	50.00
Maldenhair	1.00
CHICAGO Feb. 21.	
Roses, Beauties	25.00@50.00
seconds	6.00@20.00
" Perle, Morgan, Siebrecht	5.00@6.00
" Brides, Bridesmaid	7.00@10.00
" Meteor	7.00@10.00
" Testout	8.00@12.00
Carnations	1.00@1.50
fancy	2.00@3.00
Harrisli, callas	6.00@10.00
Valley	4.00
Violets	75¢@1.25
Roman hyacinth	2.00@3.00
Narcissus (paper white)	3.00
Hyacinths, Dutch	4.00@6.00
Narcissus Von Slon	4.00
Freesia	3.00
Smilax	12.50@15.00
Asparagus	50.00
ST. LOUIS, Feb. 19.	
Roses, Beauties long	25.00@50.00
select stock	6.00@8.00
general stock	3.00@5.00
Carnations fancy	2.50@3.00
ordinary	1.50@2.00
Valley	4.00
Harrisli	10.00
Callas	10.00
Romans	1.00@2.00
Paper white narcissus	2.00@3.00
Daffodils double	1.00@3.00
single	1.00
Mignonette	2.00@4.00
Violets single	.10
home grown	.10
double	1.00@2.00
Smilax	12.00@15.00
BUFFALO, Feb. 19.	
Roses, Beauties	20.00@40.00
" Meteors	8.00@10.00
" Bridesmaid, Mermets, Bride	7.00@10.00
" Cusin, Perle	7.00@8.00
Carnations, fancy	2.00@3.00
common	1.50@2.00
short	1.00@1.25
Harrisli	12.00@15.00
Callas	8.00@10.00
Romans	3.00
Valley	4.00
Violets	1.00@1.25
Tulips	3.00@3.50
Daffodils	3.50@4.00
Smilax	15.00@20.00

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Careful Shipping to all parts of the country.
 Price list on application.

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The Seed Trade.

AMERICAN SEED TRADE ASSOCIATION.

S. E. BRIGGS, Pres.; T. W. WOOD, 1st Vice-Pres.; ALEX. RODGERS, 2nd Vice-Pres.; A. L. DON, 114 Chambers St., New York, Sec'y and Treas. The fourteenth annual meeting will be held at Niagara Falls, N. Y., June 9 to 11, 1896.

THE FIRM of Brotherton, Breitmeyer & Co., Detroit, will go out of business soon. Messrs. Jerome B. Rice & Co., Cambridge, N. Y., have purchased the fixtures and will assume the lease of the Detroit warehouse formerly occupied by the above firm to be used as a branch of their seed growing business.

BOTH HOUSES of Congress are reported to have passed an act making it mandatory on the secretary of the Department of Agriculture to purchase and distribute seeds, and increasing the appropriation from \$130,000 to \$150,000 for the year 1896. The former law requiring seeds to be rare or uncommon has at the same time been repealed. The question of buying seeds out of the 1895 appropriation is still in abeyance.

Syracuse, N. Y.

Trade here continues very good; carnations are still most in demand. Roses are scarce and high owing to the long continued dull weather, society events are very frequent just now, as Lent is fast approaching. The grandest event this winter was the ball given by the Knights Templars at the Alhambra on the 27th ult. No expense was spared either in decorations or other matters, and it was a great success in every way. Nothing has been seen like it before, the whole ceiling was covered with colored bunting, the white and black of the order being freely used, with flags, shields, etc. From the center depended a Maltese cross 12 feet square, which was a neat finish to the upper decorations. The stand for the band on one side and that for the orchestra on the other were very tastefully banked with palms, ferns, etc. Smilax and vinca were freely used in festooning; these were furnished by H. Burt, and Mr. Bill deserves great credit for the artistic arrangement. The large stage was turned into a magnificent banquet hall and to hide this from the ball room a Norman castle was built the entire width. The central towers were 12 feet high, the battlements 9½, the end towers 10½. Over the door a large Knights Templar's shield was hung, made entirely of white and red carnations.

Round the door three rows of cape flowers were placed, these flowers were also used for the loop holes. The framework was covered with green cloth on which hardy ferns were pinned, covering the cloth entirely. It required just 5,000 to do the work. English ivy was trained up the towers. From the stage to the floor a bank covered with ground pine and ferns was made, the latter having the appearance of growing there. The public press and the 1,500 people present pronounced it one of the most artistic pieces of decorative work ever seen in Central New York. The whole was the idea and creation of H. Yonell, who wanted to break away from the stereotyped "bank of palms," and there is no doubt that hardy ferns will be more largely used in the future for similar purposes.

There is every prospect that the premium list of the floral department of the State Fair will be largely increased and value of prizes made much larger, which will insure a larger exhibit from out of town florists. The delegates from the Central New York Horticultural Society attended the annual meeting of the State Society at Albany and laid the matter before them and were assured that the request would be acceded to.

The very interesting articles in the FLORIST "Through American Eyes" are so instructive that at the last meeting of our society, which is composed largely of gardeners (who cannot see your paper), I mentioned Mr. Peter Kay's graperies to them. The question was immediately asked "can't you bring it to our next meeting and read it to us?"—which I have consented to do and feel sure that I shall have an interested audience. This I think might be followed in other societies with good results.

The members of the Central New York Horticultural Society are showing more activity than ever before. It is hoped to increase the membership to 500 before summer; arrangements are being made for the giving of free lectures on plants, flowers and fruits, which will interest all lovers of plant life; a question box will be one of the features of interest, to many amateurs. The premium list for the fall chrysanthemum show will soon be discussed. Messrs. Menelly & Son have signified their intention of offering premiums amounting to \$20 for specimen plant and cut blooms of their new seedling chrysanthemum Mrs. Adelaide White. I should be glad to hear from others with a like offer.

Mr. D. Campbell, superintendent for Major Alex H. Davis, at the last meeting showed some magnificent blooms of cinerarias, many of them measuring 3 inches in diameter, and the markings were perfect. H. Y.

Galt, Ont.

The members of the Horticultural Society entertained their late president, I. M. Duff, now of the Bank of Commerce, Guelph, at an oyster supper recently. It was a fine spread, and great praise is due to John Wells for the table decorations, which he supplied free; also bouquets of roses and carnations to each guest. The principal speeches were from ex-President Duff, President A. B. Thom, H. S. Howell, Rev. John Ridley, Dr. Cameron and Dr. Wardlaw. Each one seemed to excel the other, Mr. Howell's speech being specially appreciated. After singing "God save the Queen" the happiest meeting ever held by the society was reluctantly brought to a close.

John Wells has a fine carnation, sport from J. J. Harrison, an excellent bright pink flaked darker; it is a strong grower and large bloom. I believe Dunlop of Toronto has a new rose, and with McGeorge's new tea rose Canada makes a good showing in novelties this season.

MAC.

DON'T WAIT AND GET LEFT, BUT GET YOUR ORDERS IN. Per 1000 Per 100

Mme. Sallier Geranium.....	\$12.00	\$1.50
Cuphea platycentra (Cigar Plant).....	8.00	1.00
Feverfew Little Gem.....	10.00	1.50
Salvia splendens.....	10.00	1.25
Alternanthera p. major and aurea nana.....	6.00	.75

The above are grown in Pots, and in fine condition.

ROOTED CUTTINGS.

Golden Queen, the only all around yellow		
Coleus, and Crinum Verschaffelt.....	\$ 6.00	\$.75
Coleus in variety.....	5.00	.60
Double Petunias.....	12.00	1.50
Fuchsias, named varieties.....	12.00	1.50
Heliotrope.....	8.00	1.00
Double Golden Marguerite.....	12.00	1.50
Ageratum, blue and white.....	8.00	1.00

Selection of sorts to remain with us.

Cash with the order.

J. E. FELTHOUSEN, Florist, Schenectady, N. Y.

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SEEDS Garden and Farm

Vegetable and Flower Seeds. All the newest and best varieties—quality unsurpassed, Illustrated Catalogue FREE.

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NEW BISMARCK APPLES.

1 and 2 years old.

CH. KOEHLER, Five Points Nursery, Oxford Church P. O., Philadelphia, Pa.



NEW CROP ONION SEED

75 CTS. PER POUND for YELLOW DANVERS.

85 CTS. PER POUND for BEST YELLOW GLOBE DANVERS.

\$1.00 PER POUND for LARGE RED WETHERSFIELD.

\$1.50 PER POUND for American-Grown PRIZE-TAKER,

in lots of FIVE POUNDS of one kind or assorted as desired. With every \$5.00 order goes FREE a copy of Greiner's Best Book, "ONIONS FOR PROFIT," telling all the Secrets of Success in ONION CULTURE.

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you can save money and should buy at Wholesale Prices, as quoted in BURPEE'S BLUE LIST for 1896. It is mailed FREE to Market Gardeners everywhere, who, while entitled to the lowest prices possible, should be sure always to get Only the Best Seeds that Grow! BURPEE'S SEEDS are WARRANTED, —few equal, none better—and are sold annually direct to many more planters than are the seeds of any other growers.

☞ If you have not yet seen BURPEE'S FARM ANNUAL for 1896, write for it TO-DAY. A handsome New BOOK of 184 pages, it is pronounced by papers everywhere The Leading American Seed Catalogue.

W. ATLEE BURPEE & CO., Seed Growers, Philadelphia, Pa.

Mention American Florist.

ESTIMATES BY LETTER.

It often happens that upon large orders (whether from market gardeners, canning establishments, or institutions) we can do better than prices quoted in our catalogue.

When sending for such an estimate, please write each variety on a separate line. We will then return this sheet (or order blank) with our lowest cash price for the lot.

At all times we are prepared to meet any legitimate competition with other first-class seed houses.

Des Moines, Ia.

There has been but little sunshine lately and the cut of roses and carnations has not been up to demand. Bulbous stock is more plentiful yet none finds its way to the waste barrel.

We took a trip around some of our local places last week and found P. Lambert making preparations for a large stock of bedding plants, besides growing roses and other flowers. His favorite roses are Kaiserin and Testout. He has four houses using steam heat.

At J. F. Marshall's place we are put upon our good behavior at once, for his place is as clean as a new pin. He has four houses 110 feet long, heated with steam in midwinter, changing to hot water for fall and spring. His business is more wholesale than retail. In roses he has Meteor, Perle and La France as main kinds and in La France J. F. is A1. In carnations he has McGowan, Daybreak, Portia and Tidal Wave. He is practically going out of the bedding plant business and will devote his attention to raising flowers for the trade.

We found J. Ledig with hose in hand and he understands how to use it. He has three houses 100 feet long, heated with hot water. In roses we found Perles, Brides, Bridesmaids and Kaiserins. He grows but little bedding stock. His carnations are McGowan, Daybreak and Emily Pierson. He says Daybreak sells better than Scott in this locality.

We next walked in to Mr. Balthis' house. He has but one house 100x18 feet and it is devoted to carnations—McGowan, Daybreak, Scott, Portia and Tidal Wave. His McGowans had the rust when housed, but through careful work and good management of Chris Anderson, his grower, they are overcoming it.

J. T. D. F.

Clifton, N. J.

S. C. Nash has had a severe and unusual experience with his Beauties this season. Until the middle of September they looked very fine and the cut was good in quantity and also in quality; then the plants were attacked with "black spot" in a very bad form. The plants recovered from that for the most part, but they seem to go all to leaves and small buds on short stems. Out of ten houses of this rose only one is doing well. Mr. Nash has gained such a reputation for his fine Beauties that he feels quite discouraged. He says the treatment has been just the same as he has always used, and he cannot account for the failure in any way.

Mr. Nash is preparing for his aquatic garden and will in a few days start the Victoria regia seeds, and he has a quantity of them. He winters the aquatic plants that are not hardy in a house built for that purpose in a temperature of about 60°.

S. M. T.

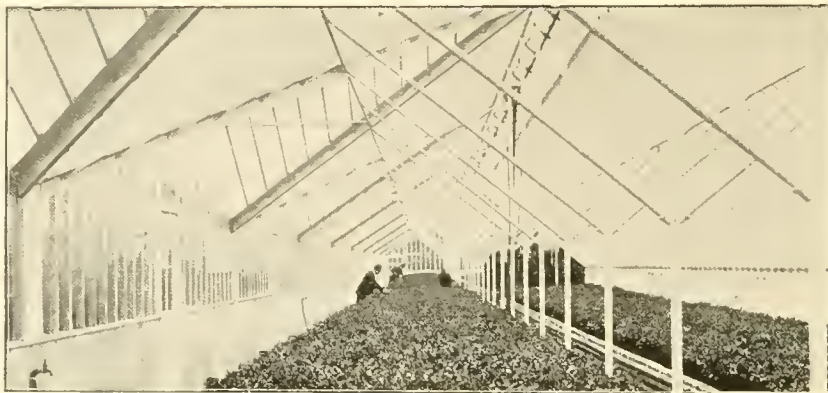
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MORRISVILLE, Bucks Co., PA.

Offer the following to the Trade:

DAHLIAS—20,000 finest and best.
CANNAS—10,000 mixed and named sorts.
HONEY-SUCKLES—20,000, Evergreen, Halliana and Golden.
CLEMATIS PANICULATA—10,000, one and two years old.
CALIFORNIA PRIVET—200,000, one and two years old.
FLOWERING SHRUBS—250,000, all sizes and varieties.
DECIDUOUS TREES—500,000, for streets and lawns.
EVERGREENS—500,000, large, medium and small.
 Correspondence solicited in reference to anything needed in the way of nursery stock.

Dreer's Special Offer.



INTERIOR VIEW OF ONE AZALEA HOUSE AT DREER'S NURSERY, 25x250 FEET.

AZALEAS FOR EASTER

We are carrying an immense stock of Azaleas, and can supply all the leading varieties in quantity; the plants are exceptionally fine, bushy and well set with buds.

CROWNS, 10 to 12 inches in diameter \$5.00 per dozen; \$10.00 per 100.
 " 12 to 15 inches in diameter 9 00 " 70 00 "

SPECIMEN PLANTS, 18 to 20 inches in diameter \$3.00 each.

BULBS.

Tuberous Rooted Begonias.

SINGLES in separate colors, as scarlet, crimson, white, pink, yellow and orange \$3 per 100; \$25 per 1000
SINGLES in choice mixed colors, \$2.50 per 100; \$22.50 per 1000.

DOUBLES in separate colors, scarlet, pink, white and yellow, \$1.50 per dozen; \$10 per 100; \$95 per 1000
DOUBLE FLOWERING in choice mixture, \$1.25 per dozen; \$9.00 per 100; \$80.00 per 1000.

Fancy Leaved Caladiums.

NAMED 15 choice varieties, \$1.50 per doz.; \$12 per 100.
MIXED varieties, \$1.00 per dozen; \$8.00 per 100.

Gloxinia crassifolia grandiflora.

A select strain of mixed varieties, 75 cts per dozen; \$5.00 per 100; \$45.00 per 1000.

MISCELLANEOUS STOCK.

ASPARAGUS PLUMOSUS NANUS, 2-inch pots, \$1.00 per dozen; \$8.00 per 100.

BEGONIA HAAGEANA. The best of all flowering Begonias, producing creamy white flowers, in trusses 5 to 6 inches in diameter. \$2.00 per dozen.

CAREX JAPONICA VARIEGATA. The new variegated Japanese sedge, a pretty ornamental grass, 2 1/2-inch pots, \$1.00 per dozen.

CLEMATIS MME. ED. ANDRE. New red flowering Clematis, 3-inch pots, 50c. each; \$5.00 per dozen.

HYPERICUM MOSERIANUM. The new St Johns Wort, one of the most desirable perennials yet introduced, strong 1 year old plants, \$1.00 per dozen; \$8.00 per 100.

CYPERUS ALTERNIFOLIA GRACILIS. A new variety of Cyperus with small narrow foliage, very graceful, 2-inch pots, \$1.00 per doz.; \$8.00 per 100.
DREER'S DOUBLE PETUNIAS, Strong, 2 1/2-inch pots, 75c. per dozen; \$5.00 per 100.

CLEMATIS. A fine lot of extra good 2 year old plants, 10 all the leading varieties, \$3.75 per dozen; \$30.00 per 100.

YOUNG PALMS FOR GROWING ON.

We have an immense stock of the following young Palms in exceptionally fine condition which will be found of good value for growing on.

ARECA LUTESCENS.

2 1/2-inch pots, 6 inches high 75 cts. per doz.
 \$6 per 100.
 \$50 per 1,000.
 3-inch pots, 12 to 14 inches high \$1.25 per doz.
 \$10 per 100.
 \$95 per 1,000.

KENTIA BELMOREANA.

2 1/2-inch pots, 3 leaves, 8 to 10 inches high \$2 per dozen.
 \$15 per 100.
 3-inch pots, 4 leaves, 10 to 12 inches high \$3 per dozen.
 \$25 per 100.

KENTIA FORSTERIANA.

2 1/2-inch pots, 3 leaves, 6 in. high \$1.25 per doz.
 \$10 per 100.
 3-inch pots, 4 leaves, 10 to 12 inches high \$2 per dozen.
 \$15 per 100.
 4-inch pots, 4 to 5 leaves, 15 to 18 inches high \$4.50 per doz.
 \$35 per 100.

COCOS WEDDELIANA.

2 1/2-inch pots, about 5 inches high \$2 per dozen.
 \$15 per 100.

Owing to a scarcity of this variety the price is about 50 per cent higher than last year. We have but a limited stock of this variety to offer.

LATANIA BORBONICA.

2-inch pot, 3 to 4 leaves 75 cts. per doz.
 \$5 per 100.
 \$40 per 1,000.
 3-inch pots, 4 to 5 leaves \$1.25 per doz.
 \$10 per 100.
 \$90 per 1,000.
 4-inch pots, 4 to 5 leaves \$3 per dozen.
 \$25 per 100.

The 3-inch pots are just beginning to show character nicely, while the 4-inch are nicely developed plants.

Chamaerops Excelsa.

2-inch pots 75 cts. per doz.
 \$5 per 100.

Cocos Plumosa.

3-inch pots, 15 inches high \$1.25 per doz.
 \$10 per 100.

Ptychosperma Alexandrae.

2-inch pots, 6 inches high, 3 leaves 75 cts. per doz.
 \$6 per 100.

Livislonia Rotundifolia.

A nice lot of small plants of this \$2.50 per doz.
 scarce variety in 2-inch pots \$20 per 100.

HENRY A. DREER,

714 CHESTNUT ST.

PHILADELPHIA, PA.

When writing mention the American Florist.

We are now offering a fine lot of

DRACÆNAS

in the best sizes and varieties, at very low prices. List on application.

PITCHER & MANDA, Short Hills, N. J.

CARNATIONS—Rooted Cuttings Wm. Scott, \$15.00 per 1000; Daybreak \$12.00; McGowan \$12.00; Nellie Lewis \$10.00.

VERBENAS—Assorted colors, 80c a 100; \$7.50 a 1000.

AZALEAS—Fine plants, \$5.00 to \$8.00 per dozen.

HYDRANGEA Olaks—Strong, \$1.25 to \$3.00 per doz.

HYDRANGEA P. G.—First-class, 3 year, \$7 per 100.

ANEMONE Whirlwind—Strong field grown, \$6 a 100.

Write for our catalogue.

VICK & HILL CO., Rochester, N. Y.

**Rooted
Cuttings.**

CARNATIONS.

**Rooted
Cuttings.**

If PRIZES WON are an indication of where you should buy your Carnation plants,

LOOK AT THIS LIST OF AWARDS:

BY THE NEW YORK FLORISTS' CLUB.

- The Dean Silver Cup for best display, 1st prize first day's competition, Nov., 1895.
The New York Florists' Club Silver Cup for best display, 1st prize 2nd day's competition, Nov., 1895.
First Prize for best pink, for Bridesmaid.
First Prize for best crimson, for Meteor.
All above at Madison Square Garden, Nov., 1895.
Certificate of Merit for Storm King.
First Prize for 50 blooms white, for Storm King.
First Prize for 50 blooms red, for Stuart.
First Prize for Collection not less than 10 blooms each sort.

The above four at Grand Central Palace, Nov. 6, 1893.

BY THE MASS. HORTICULTURAL SOCIETY.

- Certificate of Merit for Storm King, March, 1895.
Complimentary Notice for Bridesmaid, Dec., 1894.
Complimentary Notice for Meteor, Dec., 1894.

IF BUSINESS DONE be an indication of where you can be best and most satisfactorily served, **read this statement:** 2000 Commercial Florists buy Carnation Cuttings from our establishment. During season of 1895, we sold and shipped 250,000 Carnation Cuttings and Plants. Since our business was established in 1893, we have sold and shipped nearly 500,000 carnation plants and cuttings. We have already placed orders for One Hundred Thousand Plants and Cuttings for this season's delivery. We aim to make make our total sales of Carnation plants and cuttings amount to three-fourths of a million at the close of this season.

All florists who desire to purchase really First-Class stock will be conscientiously served if they assist us by favoring us with their orders.

REMEMBER—We do not try to grow or sell cheap stock. Fine, strong, healthy plants for our customers is our motto. We will give you full value for your money. We will please our customers.

OUR CATALOGUE AND TRADE LIST IS NOW READY, AND WE WILL SEND THEM UPON RECEIPT OF YOUR ADDRESS.

C. W. WARD, Manager.

THE COTTAGE GARDENS, Queens, L. I., N. Y.

NOVELTIES

For FLORISTS and SEEDSMEN.

ROSES—White Rambler, Golden Rambler, New Climbing Meteor and Carmine Pillar.
CRIMSON RAMBLER—\$3.00 per 100. Field grown. \$15.00 per 100. Extra fine plants, 3 to 5 feet high. \$25 per 100. Other roses at low prices. Send for list.
SPIRÆA ANTHONY WATERER—The Crimson Spiræa. The Ideal Pot Plant for Florists. Introduced last year at \$2.00 per plant, our price to-day \$3.00 per 100.
BULBS—Chinese Sacred Lilies, \$4.00 per 100. Lilium Candidum, fine bulbs, \$2.00 per 100. L. Longiflorum, \$2.00 per 100. L. Speciosum Album, \$6.00 per 100. L. Spec. Rubrum, \$5.00 per 100. L. Auratum, \$3.00 per 100. All other bulbs.
CANNAS—12 New Cannas, our own raising, \$6.00, warranted satisfactory or money refunded. Crozy's Cannas of '94, 20 cts. each; set of 20, \$3.00. 50 named cannas, 50 sorts for \$5. French Cannas, \$12 per 100.
DAHLIAS—All the latest introductions. Mrs. Pearl the white Cactus Dahlia, \$10 per 100. Nymphaea, the pink cut flower Dahlia, \$7 per 100. Mixed Dahlias, \$4 per 100.
IMPERIAL MORNING GLORIES—Double and single flowers, 6 inches. Seed, \$5, \$10, \$20 and \$40 per pound.
FANCY FLOWER POTS AND JARDINIÈRES—Largest assortment in the country. Send for catalogue.

A. BLANC & CO.,
PHILADELPHIA, PA.

The Secretary,

Agricultural and Horticultural
Society of India, Calcutta,

Will be glad to receive offers for

GYPRIPEDS AND DENDROBES.

Lists on application.

The Oaks Greenhouse Co., Jackson, Mich.

Offer the following: 100 1000
Primula Jap., nice 2½-inch pot plants, \$2.50 \$
Rooted Cuttings Carnations, 3 varieties, 1.00
Begonia Metallica, 3½, 5.00
Rooted cuttings Chrysanthemum, standard
varieties 1.00 9.00
R. C. Marguerite Dalay, white and yellow, 1.00 9.00
R. C. Vinca variegata 1.00 9.00
R. C. Carnations, Daybreak, McGowan, Por-
tia, etc., 1.25 10.00
R. C., a quantity of La France Roses, 1.50 12.00
If to be sent by mail add 10c per 100. Cash with order.

CARNATIONS

	Per 100	Per 1000
ROSE QUEEN,		
ALASKA,		
MINNIE COOK,	\$5.00	\$40.00
WM. SCOTT,		
HELEN KELLER,		
THE STUART,	2.50	20.00
DAYBREAK,		
THOS. CARTLEDGE,		
LIZZIE MCGOWAN,	2.00	15.00
TIDAL WAVE,		
PORTRIA,		

FROM FLATS,

EQUAL TO

POT GROWN.

VAUGHAN'S SEED STORE, 84 & 86 RANDOLPH STRE T,
CHICAGO.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, \$1.00 per 100; \$8.00 per 1000.

NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.

We are the Largest Growers of Verbenas in the country.
Our plants cannot be surpassed.

J. L. DILLON, Bloomsburg, Pa.

WATER LILIES.

We have added Aquatics to our line of specialties and carry a full line of stock suitable for all purposes. VICTORIA REGIA (new type, unsurpassed); NYMPHEAS, hardy and tender, all colors; NELUMBIUMS in variety. Seeds, tubers and plants. This department is under the management of the well-known specialist, William Tricker, who has merged his stock into ours.
Dreer's quarterly trade list just issued, describes everything, mailed to all the trade.

HENRY A. DREER, 714 Chestnut Street, Philadelphia, Pa.

GARDENER'S SEED AND PLANT GUIDE

From experience, tells about gardening for profit or pleasure and about The Flower and Vegetable Garden. Postpaid 5c. JNO. BAUSCHER, JR., Box 463 Freeport, Ill.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

FOR SALE, a few thousand

Adiantum Guneatum,

in 2 and 3 inch pots.

Address **FITZ SIMMONS,** Lansing, Mich.
Mention American Florist.

Memphis, Tenn.

The Tennessee Floral Co. is no more; the houses will be torn down in the spring and the heating apparatus has been sold to the Memphis Floral Co., Max Keuhne, the lessee, having departed leaving his landlord and the coal men to mourn his loss.

The Magnolia Floral Co. is the title of a new firm, who during the past year have erected three new houses. They are cutting a fine crop of lettuce at present. They intend entering the plant and cut flower trade. Mr. Albert Haisch, of the late firm of Uhlmann & Haisch, is the moving spirit in the enterprise.

Mr. J. T. Williamson is just recovering from a severe attack of pneumonia.

Mr. James Stewart, our pioneer nurseryman, in connection with his many duties as editor of the agricultural column of the *Commercial Appeal* was called upon as a witness to prove the age of a tree. A section of the tree was brought into the court room, and by the rings it showed the age was to be determined. It was developed in Mr. Stewart's testimony that some trees make more than one ring a year, a case being cited of a yellow pine which Mr. Stewart planted and cut down 25 years later, which showed 75 distinct rings.

Mr. Frank Solly, late of Chicago, has resigned his position with J. T. Williamson. It is understood he will return to Chicago.

Mr. Geo. A. Solly, superintendent of Elmwood Cemetery last season, did the first carpet bedding seen in this section, but it is understood there will be no more of it, as the directors think it is a waste of money.

Trade is very slack since Christmas. The weather has been cloudy, with much rain, and mud and slush makes life miserable in the suburbs, while in the city the streets are liquid mud. H.

Austin, Texas.

A. M. Ramsey, for thirty-five years a successful nurseryman of Burnet county, died at his home in Austin December 30, aged over 70 years. The nursery will be continued by his son, F. T. Ramsey, who has been associated with him all his life, and who has been managing all departments for several years. Trade in all lines has been better than for several years, especially in fruit trees. Austin is getting ready for a solid boom. The great granite dam 60 feet high across the Colorado River is bound to make the city grow. The water rate through meter for irrigating is 5 cents per 1000 gallons, and electric lights are as cheap as kerosene. X. X.

CARNATIONS.

Seek no further, for no better can be found.

WM. SCOTT and McGOWAN... \$12.00 per 1000
DAYBREAK... 15.00
METEOR, ROSE QUEEN, BRIDES-
MAIDS... \$4.00 per 100; 35.00
ALASKA... \$3.00 per 100

All warranted clean, healthy, well-rooted stock. Perfect satisfaction guaranteed or money refunded. Terms cash with order.

H. I. FAUST,

MERION, Montgomery Co., PENNA.

CARNATIONS—Rooted Cuttings.

Healthy; no rust. Albertini, Helen Keller, \$1.50 per 1000 McGowan, Tidal Wave, \$1.00 per 100; \$10.00 per 1000 Wm. Scott, \$1.25 per 100; \$10.00 per 1000. Cash with order please.

H. L. PHELPS, Springfield, Ill.

Mention the American Florist when writing to advertisers on this page.

HERR'S CARNATIONS.

ROOTED CUTTINGS that will give good results, because they are taken from healthy stock, and will be well rooted when sent out.

VARIETIES—McGowan, Mrs. Fisher, and Alaska, the best of all whites.

Daybreak, Scott, Aurora, Sweetbrier, Rose Queen, Peachblow, Dorner, Stuart, Portia, Jubilee, Buttercup, Eldorado, Kitty Clover, Keller, Iago, and Meteor, the best of all dark ones. Thomas Cartledge and Wave; also all the Novelties, including Annie Lonsdale and the hit of the season DELLA FOX.

Don't place your order before writing to me. I have fourteen large houses full of Carnations and think we can make a deal. In asking for prices please state how many you will want of each variety and when they are to be delivered.

L. B. 496.

ALBERT M. HERR, LANCASTER, PA.

Mention American Florist.

Crimson Sport Carnation.

This new carnation originated with us six years ago and has been thoroughly tried before offering it to the trade. Crimson Sport, as its name will imply, is a sport from Unique, which was a sport from Lydia. Crimson Sport has the strong, healthy growth of its parent, very large crimson flowers, free from rust and disease, very prolific, long stiff stems, perfectly healthy growth, a good shipper, a good keeper and all in all the best crimson carnation now in cultivation. We say this after growing it several years and comparing it with all the recent introductions and old varieties.

Having plenty of stock our cuttings will be taken from perfectly healthy plants that have not been forced or propagated to death, as is often the case.

Call and see it growing or send for carnation circular of this and other varieties.

ROOTED CUTTINGS, \$1.50 per dozen; \$10.00 per 100; \$60.00 per 1000.

J. L. DILLON, Bloomsburg, Pa.

CARNATIONS

Rooted Cuttings.

Perfectly clean and healthy, and will be well rooted when sent out.

Daybreak, Scott, McGowan, Puritan, Silver Spray, Tidal Wave, Portia.

Delivery Feb. 15 and later, \$1 per 100; \$8 per 1000.

Mme. Albertini, Emily Pearson, Helen Keller.

Delivery Feb. 15 & later, \$1.50 per 100; \$10 per 1000.

TERMS CASH WITH ORDER.

MAGNUSON & PEARSON,

Bowmanville, Station X, Chicago.

Rooted CARNATION Cuttings

Wm. Scott, Daybreak, L. McGowan, Thos. Cartledge and Portia, ready now.

10,000 plants of MRS. FISHER, rooted in October and now in beds; the best white for summer blooming, \$15.00 per 1000.

Get my list and prices before ordering.

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The best YELLOW CARNATION in this locality; bears large, well-formed blooms on strong stems. Winner of two first prizes Penna. Hort. Show, Nov., 1895. Flowers brought \$6.00 per 100 wholesale at Christmas.

Rooted Cuttings \$5 per 100; \$40 per 1000.

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If so, why not GROW the BEST?

50,000 ROOTED CUTTINGS, including Daybreak, Wm. Scott, Goldfinch, Lizzie Gilbert, Emily Pearson, Lizzie McGowan, Tidal Wave, S. Spray, Hinz's White, &c. Can do you justice in quality and prices. Write me before you buy. Address CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

Cinerarias and Calceolarias—Strong, healthy stock in all the brightest colors. Cinerarias, 3-inch, \$4.00 per 100. Cinerarias, 4-inch, \$6.00 per 100. Calceolarias, 3-inch, \$1.00 per 100. Azaleas, large plants full of bud, 65 cts. each.

S. WHITTON & SONS, Wholesale Florists, City and Green Sts., Utica, N. Y.

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Eldorado, 5 40.
Kobinson, " " No Rust no St. Spots
Ophelia, " " No Rust no St. Spots
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OPHELIA..... \$5.00 \$50.00
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VIOLETS. Lady Campbell, splendid, inexhaustible, \$1 per 100; \$8 per 1000.

MUMS, At \$1.50 per 100. The following: Ivory, Yellow Queen, Mutual Friend, Marie Louise, Mrs. J. George IIs, Mrs. Craig Lippincott, Mrs. E. G. Hill, and E. Dailledouze.

We can furnish other standard varieties of carnations if desired, and will fill orders now. Cash with order. Yours truly,

C. S. SWAYNE, Kennett Square, Pa.

Try EDITH FOSTER,

NEW WHITE CARNATION

(Offered for the first time.)

STOCK LIMITED.

Has been TESTED THREE YEARS. Is early and productive. Flowers medium to large, of good form and substance, very fragrant, stems long, habit of plant, ideal.

COME AND SEE IT.

Watch for it at the American Carnation Society's Exhibit at New York in February.

Send for descriptive price list of **NEW AND TESTED CARNATIONS.**

PETER FISHER, Ellis, Norfolk Co., Mass.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns

Garnation Orders BOOKED NOW.

Good, clean, well-rooted stock. NO RUST.

	Per 100	Per 1000
BRIDESMAID...	\$5.00	\$50.00
METEOR...	5.00	40.00
STORM KING...	5.00	40.00
UNCLE JOHN...	3.00	25.00
STUART...	3.00	25.00
E. A. WOOD...	3.00	25.00
GOLDFINCH...	4.00	35.00
WM. SCOTT...	2.50	20.00
DAZ ALBERTINI...	3.00	25.00
DAYBREAK...	3.00	25.00

CHRYSANTHEMUMS.

	Each	Doz.	100
Mrs. W. C. Egan, new (ready March 1)	\$.50	\$5.00	\$50.00
Tippecanoe, new (ready March 1)	.50	5.00	50.00
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Mr. E. M. Bigelow	1.00	8.00	
Mrs. S. T. Murdock	1.00	8.00	
Oakland	1.00	8.00	
Major Bonaffon and other choice older standard sorts	.75	5.00	

Send for descriptive & color list.

F. DORNER & SON,
LA FAYETTE, IND.

The Crack Carnations:



SCOTT, ALBERTINI,
DAYBREAK, MCGOWAN.

Selected Cuttings, well rooted in sand and soil, delivery February 15th and later, \$2.00 per 100; \$15.00 per 1000.

Send your order at once, with cash, to get these figures . . .

ALEX. McBRIDE,
ALPLAUS, N. Y.

50,000 CARNATIONS ROOTED CUTTINGS

Now Ready

Positively clear of RUST. Send for price list.

William Swayne,

P. O. Box 226. KENNETT SQUARE, PA.

THE BEST

WHITE ALASKA PINK SCOTT

CARNATIONS

HEALTHY STOCK NOW READY.

C PESENECKER & SON, 290 Kilpatrick St. JERSEY CITY, N. Y.

IVORY, NEW WHITE CARNATION.

Closely resembling Wm. Scott in growth of plant and abundance of bloom. Flowers pure ivory white, of good size and fine form.

ROOTED CUTTINGS ready March 1st, \$10.00 per 100; \$75.00 per 1000.

Send for complete price list.

GEO. HANCOCK & SON, Grand Haven, Mich.

CARNATIONS

50,000 ROOTED CUTTINGS now ready; all taken from good healthy plants:

THOMPSON, a good clear pink, similar to Scott, CARTLEDGE, SCOTT, DAYBREAK, BUTTERCUP, PORTIA and MCGOWAN. Write for prices.

THOMPSON BROS., Kennett Square, Pa.

CARNATIONS.

Fine and healthy rooted cuttings of the following:

Meteor, Kohinoor, Bride of Erlescourt, Rose Queen, Dean Hole, Lizzie Gilbert, \$1.00 per 100; Daybreak, Scott, Cartledge, Tidal Wave, \$2.00 per 100; \$15.00 per 1000.

Silver Spray, Aurora, Portia, Lizzie McGowan, Mrs. Fisher, \$1.50 per 100; \$12.00 per 1000.

LADY CAMPBELL VIOLET RUNNERS, in any quantity at \$5.00 per 1000

JOS. RENARD, Unionville, Chester Co., Pa.

CARNATIONS

DELLA FOX and ANNIE H. LONSDALE

invite you to call at their home. It will pay any grower to spend the time to visit these sterling varieties; there is nothing like them under cultivation in this country. You will find them the best investment you ever made. Not croppers, but always in bloom, from Aug. to the following July.

COME AND SEE THEM.

One Hundred Dollars in Cash Premiums will be offered for the best 50 blooms of **DELLA FOX** in the fall of 1896—divided in the four largest cities in the U. S.

ROOTED CUTTINGS. Price: Less than 100, \$12.00 per 100, 100 @ \$10.00 per 100, 1000 @ \$75.00 per 1000. READY MARCH 1st, 1896. No orders will be booked unless cash accompanies order or satisfactory reference given. Sample cut blooms will be sent to florists' clubs only on application.

MYERS & SAMTMAN, Wyndmoor, Chestnut Hill, Phila.

Mention American Florist.

CARNATIONS—Rooted Cuttings.

STORM KING, from sand or soil,	\$5.00 per 100;	\$40.00 per 1000
BRIDESMAID,	5.00	40.00
METEOR,	5.00	40.00
SCOTT,	2.00	15.00
MCGOWAN,	2.00	15.00
ALASKA,	5.00	40.00

CASH WITH ORDER, PLEASE.

CHAS. H. ALLEN, Floral Park, N. Y.

Carnations, Rooted Cuttings,

FROM FINE, HEALTHY STOCK PLANTS.

White—ALASKA, STORM KING, UNCLE JOHN, (no rust) MCGOWAN.

Pink—ROSE QUEEN, PEACHBLOW, ALBERTINI, SCOTT, DAYBREAK, CARLEDGE, Etc.

Scarlet—HECTOR, PORTIA, CORSAIR.

Crimson—METEOR, PRIDE OF KENNETT.

Variegated—H. KELLER, MINNIE COOK, CHESTER PRIDE.

Yellow—DEAN HOLE, BOUTON D'OR, BUTTERCUP, Etc.

All well rooted and sure to give satisfaction. Send for price list.

H. WEBER & SONS, Floral Park, Oakland, Md.

CARNATIONS!

The two leading varieties

Alaska and Minnie Cook.

Buy from the originator and procure genuine stock. CUTTINGS NOW READY.

— ALSO —

ROSE QUEEN, DAYBREAK, WM. SCOTT, VAN LEEUWEN, TIDAL WAVE, Etc.

Write for price list.

MCCORNAC & CO., Paterson, N. J.

Successors to H. E. CHITTY.

Eldorado, Kitty Clover

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Springfield, Mass.

There is a scheme on foot to unite the Amateur Horticultural Society of this city to the Hampden County Horticultural Society. It has been thought of for some time and the affair seems to be coming to a head. If a union results there will be an exceedingly strong Horticultural Society with a large working force.

The Hampden County Horticultural Society is busy planning for the exhibitions of the year. The scheme for the sweet pea show is already shaping itself. Advanced premium lists are out. But the exhibition of chrysanthemums is to be the feature of the year and of the years also, for they hope to make it an international exhibition, the idea being to have every state, territory and the provinces represented by cut blooms, premiums being offered for the best 25 blooms from every state.

There has been an excess of balls in the city within two weeks, two of which were decorated by local florists.

The decorations of the charity ball, in the hands of Mr. Gale, were beautiful and elaborate. Everything was in green and white. The cloth work, white, served as a background over which were hung festoons of southern smilax, the sides of the galleries being made to simulate boxes; the cloth and smilax were carried down to the floor. The effect, looking either down or upon the decorations, was graceful, artistic and most beautiful. The stage was finely grouped with palms, double rows going round the whole thing.

The military ball which was given to dedicate the new armory was a less elaborate affair as regards the florist's work but very beautiful withal. Most of the decoration consisted of palms and evergreens which were staged at different points in the hall. The musicians were screened in by the graceful palms and back of them, still partly concealed by the evergreens, were seats and refreshment tables, while most of the decorating was done with draped banners and flags.

B. M.

Owosso, Mich.

Mr. Schleider, proprietor of the Sunny-side greenhouses, contemplates building four good-sized houses on the outskirts of the town. Mr. Schleider will also retain his present plant on South Washington street and will open a flower store.

Too much cannot be said in praise of Mr. Schleider's carnations and roses. Both look exceptionally fine, clean and well grown and his stock in general seems to be in excellent condition.

Mr. Schleider reports a brisk and encouraging trade.

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Price, \$2.00 per 100; \$15.00 per 1000.

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ADIANTUM CUNEATUM—Fine stock from 2½-inch pots, 50c per dozen; \$4.00 per 100. Good strong 3-inch stock, \$1.00 per dozen; \$7.00 per 100; 4-inch \$1.50 per dozen; \$12.00 per 100.

We also offer the Wonderful New Rose "Crimson Rambler" from 2½-inch pots, 70c per dozen; \$4.00 per 100; \$35.00 per 1000. Our stock is fine.

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Latania borbonica	2.75	12.00	20.00
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In order to make room, and to place in reach of all, we offer 6,000 plants only at reduced rates if ordered before March 1st, 1896, after which date, prices will be advanced. It is a most vigorous grower, propagates easily, and has come to stay. The plants are well branched, well established and first-class in all respects, and are sure to give satisfaction. Up to date florists should secure some of this stock for their floral work.

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Strong stems with leaves, buds and bloom			1.00
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Per 100 Per doz.

4-inch, 4 to 5 good leaves, \$25 \$3.00

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New Seedling CHRYSANTHEMUM Wm. Simpson.

See American Gardening, December 14th, pp. 415. Florists' Exchange, November 23d, pp. 1144. Garden and Forest, November 20th, pp. 465.

To be sent out March 15th, 1896.

50c each; \$5 per doz.; \$35 per 100.

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MRS. ADELAIDE WHITE.

We have grown this for three years, and recommend it for exhibition, as specimen plant, or cut bloom. The *Florists' Exchange*, Dec. 7, '95, page 1190, said of it, "The flower is of the hairy Japanese type, the color is entirely different from anything we have seen in that class. The lower florets were deeply suffused with pink, the upper ones being a clear white color; the combination making a pleasing effect."

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80 New Varieties, including

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M. B. LITTLE, Clens Falls, N. Y.

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Bedford Station, N. Y.

A. J. Tharp has added to his former plant three new houses, each 18x125 feet, with potting shed extending along the north end 10 by 49 feet, in which is located the steam heating and pumping apparatus, which is done by a 25 horse power steel tubular boiler. The new houses are filled with carnations, McGowan, Scott and Portia being the principals, with a sprinkling of the newer sorts for testing. Portia has always done finely with Mr. Tharp, one whole house being filled with it. Alaska is doing quite well but is inclined to make short stems and is addicted to red spider. Bridesmaid does well with stems 24 inches long and very erect, not requiring staking, in fact Mr. Tharp does not believe in staking or tying up. His plants do not seem to require it, excepting a few of the Daybreak. He believes that if more attention was paid to cutting flowers, cutting the stems down to the plants, the nuisance of tying up or staking could be nearly or quite dispensed with.

The steam pumping apparatus is of no small note on this place. The water is furnished from a system of cisterns, which seems to hold out better than wells, and as they cost a very little under his method of making them it is singular they are not in more general use. This consists in simply digging a round or oblong hole, say 14 feet in diameter and 12 to 14 feet deep, and cementing the sides and bottom on the earth, one coat of Rosendale cement or of Rosendale and Portland and one thin coat of Portland; the last coat is put on with a whitewash brush. You can brick the top over or put on plank ing, put in your conductor and overflow pipes, and the cistern is done, and in his experience will never wear out. None of his have ever leaked.

The steam pump works under 10 pounds pressure, and can be made to throw the water with such force that red spider cannot maintain a foothold. There being two hose taps in each of the new houses and one in each of the old ones very often two or three persons water at once, there being a 50-foot length of hose in each house. Two men can water the entire place inside of 30 minutes. The cistern for holding the liquid manure is entirely outside and holds about 2,000 gallons. This has no leaders from the houses running into it, but is so arranged that it can be pumped full at any time, or as much put into it as may be required to make the liquid the proper strength. T.

Jackson, Mich.

The past week has been rather a busy one with the florists and between funeral work and wedding decorations, both Mrs. Clara Brown and Mr. Jos. B'essing had their hands full.

The banquet given by the Traveling Men's Association on the 14th inst. at the D Armory hall was quite an event and the decoration for the occasion was fully in touch with the liberal spirit of the knights of the grip, plants, cut flowers and smilax having been used in profusion and to good advantage. Mrs. Brown had charge of the decoration. Homo.

Ottawa, Ont.

Thos. Elmit has moved to Cummings Bridge, a suburb, and built there a new house 18x150.

John Graham has added a house 18x70. C. Scrim has rebuilt two houses and added one 10x130.

H. Parks disappeared last summer and has not been heard of since. ZERO.

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200,000 Strong, hardy, nursery grown Roses.
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Greenhouse plants of all descriptions.

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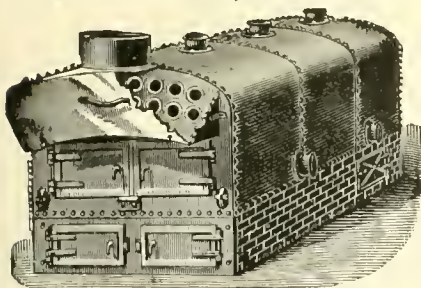
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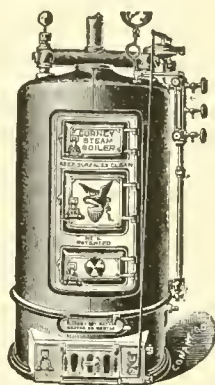
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News Notes.

INDIANAPOLIS, IND.—Mr. W. Bertermann has been confined to the house by illness for the past five weeks.

GREENVILLE, O.—James Frost has rebuilt his work-room, and has also built another house 12x65. Since he has been here he has rebuilt every house entirely, besides adding the hot water heating.

ROCKVILLE, CONN.—Mr. Theodore Standt has purchased the establishment of E. & H. Schmeiske and will continue the business. He took possession February 1. Mr. Standt was formerly of Union, N. J.

SPRINGFIELD, ILL.—H. L. Phelps recently arranged a fine decoration for a reception at the Leland Hotel. The mantel in the main reception room was banked with Bride roses and white primroses, a curtain of smilax falling over the mirror. Primrose and azalea plants were freely used, stairways and halls being garlanded with southern smilax. The decoration was highly commended by the local press.

HARRISBURG, PA.—Thos. Peters who bought McClintock's greenhouses has opened a new floral store in the place formerly occupied by the Melrose Floral Co., the latter firm removing to 3 South 4th street. The trade is better for cut flowers, and plants, this year than last; better flowers are wanted, and advance in price is not so objectionable as poor flowers, well grown Scott, Cartledge and Daybreak are best sellers in carnations; in violets Marie Louise is preferred to California.

LEBANON, PA.—The new establishment of Mr. D. Hammond Mish, erected last summer, consists of two three-quarter span houses, each 20x100 feet, with single thick butt glass, heated by hot water and with a boiler of the style described by Mr. Swayne in the FLORIST of March 16 last. The houses are devoted to carnations. Mr. Mish is very successful with carnations, and is of the opinion that he has struck a little carnation belt of his own of a very superior quality. The boiler referred to is working very well and giving excellent satisfaction.

Louisville, Ky.

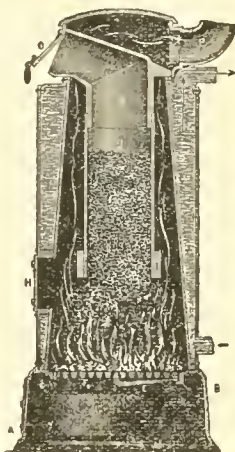
Mr. J. E. Marrett, president of the Kentucky Society of Florists, entertained the florists Tuesday, Feb. 11, at supper. The Hon. Zack Phelps acted as toast-maker. The rooms were tastefully decorated with palms, smilax and pink flowers. The table had all the delicacies of the season, including the luscious strawberry. All the florists enjoyed themselves very much. S. J. THOMPSON.

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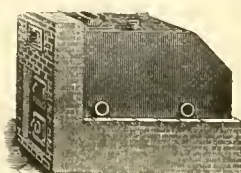
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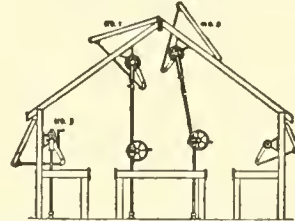
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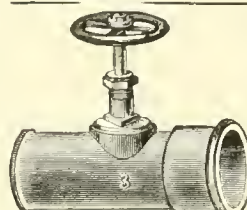
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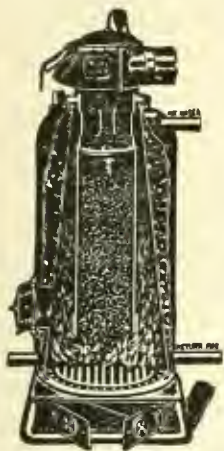
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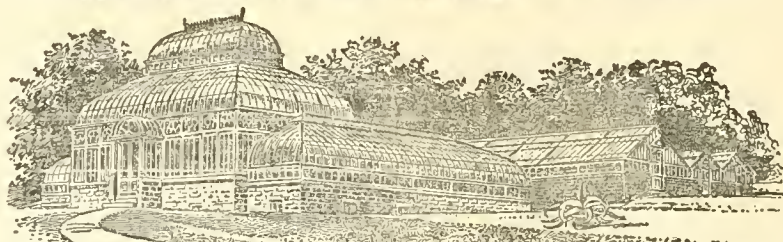
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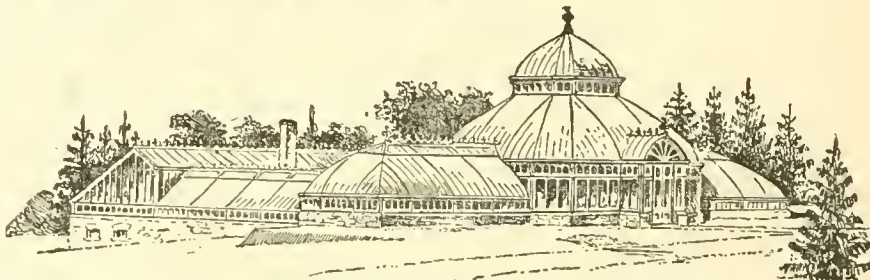
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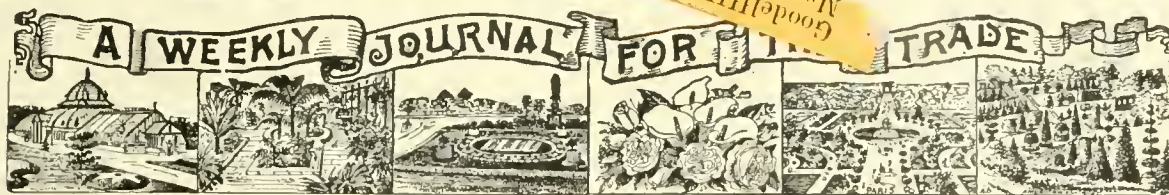
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Vol. XI

CHICAGO AND NEW YORK, FEBRUARY 29, 1896.

No. 404

THE AMERICAN FLORIST

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ton, secretary; H. B. BEATTY, Oil City, Pa., treasurer.
The twelfth annual meeting will be held at Cleve-
land, O., August, 1896.

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PRESIDENT SCOTT is doing fully as well
as could be expected. His limb has been
in a plaster cast, and the fracture seems to
be joining satisfactorily. The greatest dif-
ficulty has been to keep the patient quiet.
It is thought that in two weeks he will be
up and around the house.



American Carnation Society.

The closing session of the New York
meeting on Friday afternoon, which was
in progress as our last issue went to press,
was characterized by a very light attend-
ance, many of the visitors having taken
the opportunity to go visiting among the
local growers. The election of officers
took but a few moments, there being no
contest on any of the offices, and the gen-
tlemen placed in nomination, as noted in
last issue, were unanimously elected.

Additional awards were reported by the
judges as follows on seedlings that arrived
late: Honorable mention to Fred Dörner
& Sons for Mrs. G. M. Bradt. It is of the
Helen Keller type, larger, but lacking in
fragrance. It scored 75 points. Certifi-
cate of merit to John Breitmeyer & Sons,
Detroit, Mich., for Mayor Pingree, a
pleasing shade of light yellow slightly
marked pink, long stiff stems, habit of
plant good.

M. Elmer D. Smith's paper, given in full
in our last number, was read by Mr.
Chas. H. Allen. Certain recommenda-
tions from the executive committee as to
changes in the by-laws were adopted
without discussion, and President Dörner
appointed Mr. E. G. Hill as delegate to
the executive meeting of the Society of
American Florists at Cleveland.

The question box was then opened.
The first question was as to whether the
growing of high grade carnations is prof-
itable. Chas. H. Allen responded, and
said that, from his experience in present
market conditions, it does not pay to
grow anything else. He claimed that a
grower can get as many well developed
high grade flowers from a given plant as
he can poor flowers, it being merely a
question of the grower's ability and good
judgment. Jas. G. Hancock here took the
floor in his own defense regarding the
position he had taken at the recent carna-
tion show in Chicago, claiming that his
opinions had not been correctly stated in
the published account. He said that he
did not advocate the growing of poor
flowers, as had been represented, but that
he believed a man must be governed by
his surroundings and existing conditions
as to what would be most profitable for
him to grow. He did not regard the ques-
tion as one of culture, as Mr. Allen had
done, but as one of varieties, and was
still of the opinion that more profit
would be found in standard varieties pro-
ducing a good quality of flowers in abund-

ance than in those varieties quoted as
extra high grade, and from which a lim-
ited number of blooms could only be
taken. Mr. Allen followed Mr. Hancock
up with an inquiry as to what sorts he
had in mind, and asserted that extra high
grade blooms of such varieties as Mc-
Gowan, Scott and other standard vari-
eties are coming to the New York market,
and bring prices accordingly. Mr. Dunn
said that it should be the aim of every
grower to produce blooms of highest
quality; even then he would still have
plenty of second grade flowers, and Mr.
Hill endorsed this as the proper stand for
all intelligent growers to take.

The second question was "What is the
best means to prevent overstock or glut
in the market?" "Kill off half the grow-
ers," came in quick response from the
back seats. "Make ten purchasers for
every one we now have who will buy ten
times as many flowers," said Mr. Han-
cock. "Place more of the rubbish on the
manure heap instead of on the market,"
said Mr. Dunn. Mr. Hill didn't regard
the distribution of rubbish as an unquali-
fied evil; he believed that when a person
began to buy flowers, even poor ones, he
would be apt to keep it up, and the low
grade flowers were likely to reach buyers
who would not otherwise begin.

The third question was "Which is better,
early or late planting from the field to the
house, especially in a dry season?" Mr.
Hill said that if a grower intended to
make an impression with new varieties
he must get his plants up early. Mr.
Weber made a good point by saying
that it should be borne in mind that if
plants were taken up late they would
miss the Christmas crop, and he believed
the end of August to be none too early.
Mr. Dillon preferred from the first to tenth
of October. Mr. Dunn said that more
depended on the condition of the plan-
s than upon the time of lifting. The time
to lift plants is when they are in proper
condition. Messrs. Shelmire and Hancock
agreed to this, and added that the time
bloom was wanted should also be taken
into consideration in lifting.

The next question was "What consti-
tutes a commercial carnation, and who
shall be the judge; the grower who grows
and sells the flowers or the grower who
is not able to grow the variety success-
fully?" Mr. Shelmire had prepared a
written reply, which he read as follows:

"A commercial carnation is a variety
which on dissemination proves to be a
good seller on the market, and which can
be grown, not universally perhaps, but by
a large number of growers, at a profit.
It need not necessarily be a large flower,
although that is desirable. But it must
possess health, vigor, productiveness and
a color or markings that please the pur-
chaser. The points desirable in a good
carnation are thrift, healthfulness, abun-
dant bloom, suitable color, perfect form

(double of course), strong calyx, long and stiff stems, large size, fragrance, adaptability to the numerous soils and conditions of the various sections of the country. Then it should make numerous cuttings, and they should root easily. It should be an early and continuous bloomer rather than throw its blooms into crops. It should transplant easily. It need not have *all* these points, in fact no carnation ever had or is likely to have; but the more it possesses of them the nearer it comes to being a money getter and a commercial success. Who shall be the judge? We'll, I should say the grower who grows them successfully would be a better judge than the one who cannot grow any particular variety. The latter is no doubt a good judge as to his own particular case; but his adverse judgment will not affect the standing of a variety that has proved to be of great use to many other growers. But the real judge will be the buying public. If the grower can supply in quantity and with a profit such varieties as the public want, then such kinds are first-class commercial sorts and worthy of being extensively cultivated. I would mention Scott as a shining example of a commercial carnation. And it will be noted that such varieties are very few indeed, and seldom take the premium when on exhibition for supreme honors."

"That covers the whole ground; Webster couldn't beat that," remarked Eugene Dailedouze as Mr. Shelmire concluded.

The two following questions, "Is a carnation that goes to sleep on the plant entitled to a certificate of merit?" and "Is a commercial florist engaged in the production and sale of seedling carnations a proper judge in awarding or denying certificates of merit to the productions of his competitors?" were received with merriment rather than serious discussion, and the last question in the bottom of the box "Is a certificate of merit awarded to the production of a member of the committee of any value?" met the same fate.

The premium offered by the *Florists' Exchange* for the vase of flowers showing the best keeping qualities was awarded to J. N. May for a vase of Bouton d'Or.

NOTES.

Where were the New York growers? Outside of the exhibits of C. W. Ward and E. G. Hill & Co. there were not as many flowers shown altogether as the average morning receipts of any wholesale dealer would amount to. The contributions from local growers fell far short of expectations.

Ju'ilee, Armazindy and Triumph from E. G. Hill and Della Fox from Myers & Samtman, having been certificated last year, were consequently ineligible in the seedling class, and were also debarred from competition in the general classes, not having been disseminated as yet.

The Palm Garden made an admirable exhibition room, but as an audience hall its effect on bared heads was rather severe, the penalty of exposure to the draught from the glass roof being for many a cold in the head.

E. G. Hill's Jubilee, H. Weber & Son's Bouton d'Or, J. L. Dillon's Crimson Sport and several vases of Eldorado were among the close competitors for the prize for "best keeping," which was won by J. N. May's Bouton d'Or.

An illustrated bulletin on bacterial diseases of the carnation is being prepared at Purdue University, Lafayette, Ind., and is nearly ready for distribution.

Copies can be obtained free by applying to Director C. S. Plumb.

The steamer Pilgrim, which brought the Boston delegation came up to her dock thickly coated with ice from stem to stern. "We're all in good shape," said Warren Ewell "because we came packed in ice."

Alongside each plate at the banquet was set a flask of Steinwein, decorated with pink ribbon, on which was incised N. Y. F. C. '96, which many of the visitors carried home as a souvenir.

Those who attended the initial convention of the Society of American Florists fully understand what are Cincinnati's qualifications for taking care of the Carnation Society next year. None better.

Speaking of societies it was noticeable that all the prominently active members of the Carnation Society were gentlemen identified with the S. A. F.

I. Forsterman, G. Bergman, P. B. Meissner, G. Messeberg, John Reid, and A. W. Bennett were the names of the "departed brothers" enumerated by ex-president O'Mara in his touching remarks at the dinner.

One of the prettiest features in the dinner decoration was a chandelier draped in smilax with one heavy garland of bouzainvillea thrown loosely across.

At the next club dinner a special play-room should be provided for those who think it funny to throw things at one another.

The plant classes in the schedule have proved inoperative. Some means of bringing out a good display of pot-grown carnations should be devised if possible.

Seedlings were judged by the following scale of points; color 15, size 25, substance and form 15, stem 20, calyx 15, fragrance 10.

Too bad, but the old "sleepiness" was apparent in most of the exhibits on the second day, cool pure air notwithstanding.

Galax leaves contributed by C. H. Ricksecker of Linville, N. C., were used with good effect on the exhibition tables.

The Lockland Lumber Co. had a nice exhibit of its specialties, and Edwin Lonsdale showed his new evaporating pan to many interested visitors.

The varieties Flamingo and Glow Worm were declared by E. G. Hill to be identical.

Score one more for Chester County. Eldorado is a good one.

The Broadway Central took good care of everybody.

President Sunderbruch is all right.

A LITTLE SIDE TRIP.

On Saturday morning a delegation of early risers who had been in attendance on the carnation meeting at New York started out under the leadership of Mr. Littlefield to visit the Cottage Gardens at Queens. We arrived there before breakfast, but Mr. Ward was equal to the emergency, and with the help of his most excellent wife a bountiful breakfast was soon spread and duly despatched. The new iron frame house being erected by Lord & Burnham, the propagating house, the ten or twelve houses of Scott, Daybreak, Bridesmaid, Meteor, etc., and last and most interesting of all, the seedling house, were inspected, and no one in the party could fail to have received much benefit from this visit to what seemed to be the ideal home of the carnation. After partaking of a lunch which had been prepared, and thanking Mr. Ward for his hospitality, we started for C. H. Allen's, where the principal feature was the Scotts, which were grand and beyond description. The

same kindly hospitality was extended by Mr. Allen, after which the party separated, some going one way and some another, all agreeing that the visit had been a most enjoyable and memorable occasion.

W. H. W.

Prairie Soil for Carnations.

"F. F.," Manitoba, asks: "Is soil taken from the prairie good for carnations? It is a black loam which dries out quickly. Would it improve it to mix sand with it?"

I hardly think black prairie soil is the right kind for carnations, but think it can be made good with clay soil and wood ashes. This prairie soil would undoubtedly produce a luxuriant growth, but be deficient in blooms. As it dries out quickly sand would be of no benefit at all, this soil is too light and needs something more substantial to help retain moisture and to give mineral nourishment needed to produce flowers. One-half prairie soil, one-half clay loam, with a good supply of decayed manure and a liberal sprinkle of wood ashes would make about the right proportion. If clay loam can not be procured, stiff clay would be advisable, if worked in well with the prairie soil, when dry. Still better if clay should be left to the action of air and frost for one season before using it. FRED DORNER.

Carnations Not Blooming.

We have a bench of Hinze's White carnation that are as healthy a lot of plants as could be wished, but they give very few flowers. What blossoms are produced are fine but they are few and far between; they sucker very badly.

What is the cause? Is there a remedy? Kansas. J. W. MARGRAVE.

There is no remedy. We can not change the nature of a variety. Hinze's White has proven to be a cropper most everywhere. Undoubtedly your plants will furnish a large crop in spring, but naturally the flowers would be more preferable now. The only remedy is to grow other varieties another season; varieties that will not come in crops. FRED DORNER.

MEMBERS of the American Carnation Society can obtain a very interesting and valuable illustrated bulletin on bacteriosis of carnations, and also one on fertilizers, that will prove very interesting reading, by sending their names to the secretary, Albert M. Herr, Lancaster, Pa.



Chrysanthemums

BY AUGUST S. SWANSON.

[Abstract of paper read before the Society of Minnesota Florists.]

I will not here attempt to go into any details about the cultivation of chrysanthemums, but hope you will by discussing the subject in its various aspects, be able to bring out all the little details that go to make up the successful cultivation and production of the finished specimen, plant or bloom. In a recent number of the AMERICAN FLORIST there appeared a



DECORATIONS FOR THE NEW YORK FLORISTS' CLUB BANQUET TO THE AMERICAN CARNATION SOCIETY.

short story about "Growing Chrysanthemums for Exhibition," by H. H. Becker, from which a beginner is apt to think it is a very easy matter to grow chrysanthemums for exhibition, if all there is to it may be said in less than a column. I am afraid that anyone jumping to that conclusion would have some very disappointing experiences; I know well enough that the chrysanthemum is considered a very easy plant to grow, so it is; but I have not found it the easiest thing in the world to get perfect specimens at the time you want them, even if I thought I had done my very best. No, the more I see and grow of them, the more do I appreciate the skill and knowledge of the one who can produce a sound solid flower, 12 inches in diameter, with perfect stem, foliage and color, as has often been done. These flowers are not apt to be produced, at least not in great abundance, without the strictest attention of the man who knows the requirements of the chrysanthemums. The same if you want to produce specimen plants, such as J. C. Vaughan exhibited at the Chicago show last year. They were plants in 10-inch pots, not over three feet high, but about six feet in diameter, with perfect crowns, one mass of color, with in some instances 400 fully developed flowers of very good size too. The same may be said of standards, I saw from the same exhibitor regular trees, about eight feet high, with as many as 200 very large flowers.

Now, I don't want to say it will pay us average florists to go in for trying to produce such specimens, because there is a great deal of labor connected with growing chrysanthemums like that, and unless you can dispose of them at from \$10 to \$20 apiece, I do not believe there is any money in them, but I do think there is money in growing first-class flowers for

cutting; as in my opinion there is no money in them except they are first-class.

To refer again to Mr. Becker's article in the AMERICAN FLORIST, he says about March 1 commence propagating, when rooted pot in 2-inch pots, when ready shift to 3-inch. Now, in my experience, I think I have come to the conclusion not to take cuttings so early for cut blooms; 5 or 6 years ago I used to commence propagating about that time, but have put it off later and later each year, till now I don't want a plant for benching that has been propagated before May, and even as late as June will do very well provided they receive liberal treatment after that time. With liberal treatment I do not connect the idea of putting the cutting in a 2-inch pot, afterwards shifting to 3-inch. I think a 3-inch pot none too big for a chrysanthemum cutting, and I would use 3½-inch for strong growing varieties, and be ready to bench them when they were rooted in their pots. I do not believe in frequent repotting of a chrysanthemum that is expected to produce a specimen bloom. The idea is to grow them on with just as little check and just as fast as possible after once started, and I do not care how carefully the shifting is done, the plant does receive a check every time. The same idea will apply to benching. I have cut off some time each year, last year I planted about the 1st of June, but I don't intend to plant earlier than the middle of July, and even later is better I think than earlier. The greatest trouble I have experienced about chrysanthemums in benches is to keep them a growing all the time, they are so apt to stop growing during hot weather and get hard, and if they do they will not produce the best or largest flowers, neither will they be quite so early.

I remember well enough when it was considered the proper thing to harden off a chrysanthemum just before setting its buds, we used to propagate early and grow on to good size, and after they had received the last shift they were placed out doors to ripen. This may have a tendency to dwarf the plants, make them set the largest number of buds, but as nowadays it is not the quantity but the quality we are after we have to change our mode of operating.

For cut blooms I much prefer the bench system as being most economical in labor, and also the most productive and space saving way, for single blooms it is enough to give 6 inches space between the plants each way. I prefer 4 or even 3½ inches of soil to more, as if you have more, especially if like mine, it is not apt to drain as quickly as desired, and I know of very few plants that are more impatient or more likely to suffer from stagnant moisture; there is though considerable difference in different varieties, as Ivory for instance will stand a wet and soggy soil much better than Golden Wedding and so forth.

As to pot plants, I like the idea of planting the young plants on a shallow bench for a couple of months, lift from there with clumps and pot about first to middle of September, or before the buds are set. This manner of growing when done properly is very satisfactory, as a very stocky plant may be produced with much stronger and larger foliage, than when grown in pots. Of course the potting up is the critical point, this must be done with some care, so as not to lose the foliage, but if done right and attention is paid to syringing and shading for a few days immediately after, few leaves need be injured. What I have said here, refers of course entirely to plants suitable for market plants, in from 7 to 8 inch

pots, for large specimens this system cannot be recommended.

The producing of specimen plants, I don't believe I will touch upon here; as I said before I do not believe it pays the average florist to go in for that class of plants, at least not here, as the people who are willing to pay a fair price for a specimen are so few that you cannot figure on disposing of but a very limited number.

As to soil I do not believe it makes so very much difference if light or heavy, provided it is rich and properly attended to with watering, but I do like a soil that will drain quickly even when packed very hard, as it should be for chrysanthemums. As to fertilizers that would answer the purpose, that would depend much on the character of the soil, if very light I should mix in a liberal quantity of rather fresh cow manure, give a good top dressing of the same material, if very heavy I should instead use some well rotted horse manure and top dress if at all with a very light coat of sheep manure (pulverized), and I would like to mix some bone meal with all soil, though I do not approve of using as some advocate a 20 per cent. part of the mixture, it may be all right but I would not dare to use it as freely as that, I consider a fiftieth part of the whole a very liberal allowance.

As to liquid manure some of the largest and best posted growers advocate using chemicals almost entirely; while I have experimented somewhat in that line, I do have not come to any practical results regarding which is the best. I consider guano and sheep manure with some soot added about the best for heavy soil, for lighter soil cow manure with some superphosphate. Nitrate of soda I consider a very good chemical fertilizer, I always use some of that but prefer to apply it on top of the soil in a dry state rather than as a liquid, as I think there is less waste.

I do not believe there is anything more I can say on this subject that will be of particular interest, as I need not mention about ventilation, staking and disbudding, these are things that of course must be attended to, but that is so generally understood that it would only be tiresome to most of you to go into details about it. As to shading, I never practiced it until last summer, I had a light coat of whitewash on the glass; I liked it so much that I think I shall always have a light shade on during the hottest part of the summer.

As to varieties, there is such an immense number of them that I shall not attempt to mention any, I will only say that I consider it better for the average florist to confine himself to a few sorts, say from ten to twenty, than to grow a large number. I could make out a list of ten varieties, that would satisfy me to grow, that would give a continuance of flowers from about the 10th of October to the end of the year. The leading colors are of course white or yellow, with some good pinks, the trouble seems to be to get any pinks that are pink. They mostly come grayish, purplish, or striped, with me. Fancy colors there is not very much use for in the general market here, of course for exhibition purposes they are useful, as for that purpose the greater variety and range of color the better; the more varieties the better. I noticed the green and blue ones exhibited by G. P. Rawson, at the Chicago show last year did more to attract visitors than anything else there as the newspapers gave them very extended write-ups as unheard-of novelties, so I say for exhibition purposes we must

have varieties, the more the better, as well in flowers, as in the manner of growing them. I like to see all sorts of fantastic and odd shapes in plants, as well as flowers. The chrysanthemum is a plant pre-eminently adapted to curious forms; you may very easily by grafting have a dozen varieties on the same plant and they may be grown in fan and umbrella fashion without any trouble.

Much has been said lately about how to keep the public interested in the annual chrysanthemum shows, whether this is something worth discussing I don't know, as we do not have much experience in that line yet, but I do hope to see a little interest taken in the matter of exhibitions here, after this. I hope you are



STYLE OF PLANT PREFERRED BY MR. SMITH
FOR BEDDING.

all preparing for one this year by buying up all the novelties offered. While on this subject, don't forget the little old fashioned pompons; for that purpose they are useful, if only as a comparison to the larger ones. I saw a very happy illustration of this at the Milwaukee show, in one exhibit there was an arrangement of pompons with a card "1845," while another arrangement of the newer larger varieties side by side with it was labelled "1895."

If it was not for the use we can put chrysanthemums to, in the way of getting up grand and effective shows, I believe it would be better for us florists if they had never been known, as I do not believe a retailer exists who would not wish he did not have to handle 'mums, but as it is the flower for exhibitions, I do not see why we should not take the same advantage of that fact.

Propagating Chrysanthemums.

In propagating chrysanthemums are the best results had from suckers or from shoots above ground?

How many eyes should be left on the cutting?

Do the larger or smaller shoots make the best cuttings.

What is best treatment for the cuttings?
F. P. D.

Good results may be had from cuttings taken from the stools of stock plants at the ground or from tips after they have made long growth or from tips of young plants. We have no preference in this re-

spect, if they are in a soft healthy condition. The size of cuttings vary greatly according to the variety, but are generally taken from 1½ to 2 inches in length, such being the most convenient size to handle.

It is not possible to establish a rule, that so many eyes constitutes a good cutting, for Ivory and such dwarf sorts may have ten or more, while those of Pres. W. R. Smith may not have more than four.

When the stock is ample select the strongest, but good blooms may be had from the less vigorous ones. We have seen good results from exceptionally thin, weak cuttings and also where scarcity of stock necessitated the single eye to be used, but as strong ones possess more vitality in themselves and will require less coaxing and time to make healthy plants are most preferable.

The cutting in itself has less to do with success than the conditions under which it is afterward grown. When the cuttings are potted in good friable soil, look carefully to the watering, especially at this season when the night temperature is rather low; such varieties as Ivory will not need as much as the stronger sorts, like Mrs. E. G. Hill, J. E. Lager, etc. At the first indication of yellow foliage withhold water until quite dry, then apply sparingly, till the healthy color is resumed.

Chrysanthemums are grown in so many ways that different dates of propagation are necessary to meet all requirements. For extra large specimen plants (bush or standard) cuttings should be rooted and potted on or before March 1; during April and May the bulk of those for exhibition blooms are taken and those in June will make good single stem and bloom plants, while those struck in July are best for demands after Thanksgiving. Each grower must consider his needs and prepare accordingly.

Those who expect to receive the novelties of the present year within a few days will do well by planting the original plants on a bench in about three inches of soil, four inches apart in the row, with 6 inches between rows, if they wish to increase the stock as much as possible. As soon as they have recovered from the effects of shipping and appear to be taking hold of the soil, the tips may be taken for cuttings. Flats may be used instead of the bench, when preferred, so they may be removed to frames outside as soon as the weather will permit, rather than occupy valuable space inside. This system is the most practical for those with limited space. If the chrysanthemums are to be bench grown it is important that ample stock be ready at the desired time, so varieties that are shy of cuttings or those of which the stock is limited, should be propagated now, if not already done and treated as advised for novelties.

With the exception of a few varieties which evidently require a long season of growth we would prefer plants from 2 or 2½-inch pots for benching and let them be planted before they are pot-bound. It is difficult to define the most suitable size and condition for this purpose but would recommend such as are short, stocky and well rooted. Some varieties are inclined to set buds at this season, especially where the stock has made long growth or the young plants are pot-bound. This is most noticeable during March, when the bright sun necessitates free ventilation and the cold air causes the wood to harden. Vivid and Morel is provokingly subject to this unwelcome condition.

It will be unwise to throw out the stock and buy anew; better doctor your own,



HOUSE OF MRS. PIERPONT MORGAN ROSE AT ROBT. CRAIG'S, PHILADELPHIA.

for it matters not from what source you secure it, it will bud under such conditions. Plant them in flats and place in the rose or forcing house, where they are not subjected to cold drafts and they will soon make nice soft cuttings.

ELMER D. SMITH.

Color in Vivian-Morel.

Please tell me how to treat my chrysanthemums to bring out the pink color in Vivian-Morel.

I have been successful with plant and blossom except color, which, for the last two years, was almost white.

Soil very sandy, enriched with rotten manure.

H. F. R.

Vivian-Morel is very sportive and unstable in its color, possibly more so than any other pink. We can not advise H. F. R. further than to give all the air possible; the more given the slower the development and the brighter the color; this will do more than anything to insure that deep shade so much desired. Strong liquid manure has a tendency to bleach them, if applied after they show color.

ELMER D. SMITH.



Best Soil for La France.

C. H. A. wishes to know what kind of soil is best suited for the La France rose, he has some growing in soil that was taken from a hill side, and has in it about one-third its bulk of coal ashes, the plants are not thriving, and he attributes the poor growth to poor and unsuitable soil.

La France is a very peculiar rose, thriving and blooming beautifully sometimes in poor houses and with very ordinary

treatment, while at other places where it is given the very best of care and every opportunity seemingly to do well, it positively refuses to do anything more than exist. I have seen it doing its best in a strong yellowish loam, approaching to clay, and this I believe to be the most satisfactory soil in which to grow this variety.

ROBT. SIMPSON.

The Morgan Rose.

Among the new roses of 1895 the Mrs. Pierpont Morgan has proved itself to be a most valuable acquisition and one likely soon to be found in every rose grower's collection. It has a strong sturdy growth with good foliage, resembling closely in this respect the parent, Mme. Cusin. It is very free to flower, making no blind shoots, every growth bearing a bud. The great objection to many new varieties and old ones too for that matter, is the large proportion of weak stems that come with every crop. The Morgan has no such defect; the smallest flowers from the weakest side shoots have a stiff strong stem abundantly able to hold the flower in any position it may be placed. It is so very double that it can be allowed to remain on the plants until almost fully expanded and will keep when cut in this condition longer than any other rose now in cultivation.

It usually takes more than one season to develop a new rose, to find out just what treatment it requires, soil, temperature, water, etc. This newcomer however seems to be at home at once, and Messrs. Robt. Craig and Edwin Lonsdale, who planted all the stock they could get, while giving it no special treatment are both very much pleased with its many good qualities, not the least of which is that they find it is appreciated by the public and is consequently much in demand. Mr. Craig says that it has paid him so far this season fifteen per cent more for the same amount of table space than Bridesmaid, which is his next best rose. It is such a free bloomer that he finds it beneficial to the plants to remove the buds from the small side shoots and

throw the strength into the larger and stronger growths.

Mr. Harris said in looking at a bench of it at Mr. Craig's that any rose as prolific as this he was afraid would soon become common, he had never seen anything to equal its blooming qualities.

The accompanying illustration is from a photograph taken at Mr. Craig's Jan. 13. The center bench only is planted with this rose and at that time the front row of 118 plants contained over 200 buds and flowers with color and three-fourths of them ready to cut. K.

Eel-Worms.

On page 722 of the FLORIST Mr. A. J. Pennock of Lansdowne, Pa., takes exception to what I say about these pests as regards their being found in the galls on clover roots. I do not generally say anything about these things that I have not proven before venturing an opinion, and in this case all I can say is that I have taken clover roots from various sections, digging them up as carefully as possible from the open fields, and more particularly from sections where this pest shows itself as affecting roses, and in nearly every case I have found an abundance of galls on the roots of clover in such sections, and when putting these same nodules or galls under microscopic test have never failed to find eel-worms in them. Again, I have examined a large number of clover roots in various stages of growth in sections where I could not find any trace of eel-worms on roses growing in the same soil and have failed to find the same class of galls or nodules on their roots; in many cases could not find any whatever. In some few cases I have occasionally found a root with some; these I have also carefully examined, and found the nematodes in them. Now if Mr. Pennock is right about all this class of plants always having root galls why did not these last ones referred to have any, or if it is simply natural for these galls to grow on this class of plants why is it so easy to find eel-worms in them? If Mr. Pennock can explain why some clover roots are free from galls and others from another section have plenty on them, both growing under similar conditions and procured within a few days of each other, I for one at any rate shall be greatly interested in the causes leading up to this to me rather knotty problem.

Mr. Pennock asks how many of these clover roots I have found with eel-worms in them. I cannot answer this question accurately as to numbers, as I failed to keep a correct account, in fact they are too numerous to count. On one occasion for the benefit of some friends I collected specimens from several sources and spent a whole evening examining them, and probably we dissected several hundred galls during that time, and to use the expression of one of the party, found eel-worms enough to stock the state of New York. This may be a figure of speech, but it expressed the general sentiment of all present.

Mr. Pennock says that root galls are natural to all leguminosae. Yes, and root galls are natural, or at least very often found on the roots of all the Brassica family, but the farmer who is growing a crop of cabbage for market and finds them affected with it knows well enough that his chance for a profit in that crop is very slight, and club root in cabbage and its family is caused by the same class of organisms. Again I have seen large clubs form on the root of a chrysanthemum; one in particular was brought to me some years ago as large as a mandarin

orange and about the same shape, in which I found the largest eel-worms I ever saw and in number too many to count. At the same time a clover root with galls about the size of a pin's head was brought from the same place; this was washed off with very clean water, carefully examined and the worms found in it shown to be of the identical family as those found in the club from the chrysanthemum root, though very much smaller in size.

If Mr. Pennoek will call here sometime early next summer and bring with him some clover roots with well defined clubs or galls on them I think I can show him plenty of eel-worms extracted from them, and I also think I can show him plenty of clover roots that do not have any galls growing on them unless they very materially change from former years, but I have already taken up too much space of your paper; my excuse for doing so is that I want to make this matter quite clear, as it is certainly a very serious question with a very large proportion of rose growers to-day, and if other growers in different parts of the country will please give their experience on this subject we may gain very much useful information, and no one will appreciate it more than

JOHN N. MAY.

Rose to Grow With Meteor.

Replying to the question asked by F. F. of Winnipeg, Manitoba as to what rose can be grown in the same house with Meteor, I would suggest either Perle or Kaiserin, if pink is more desirable La France might answer. None of these varieties will bear as high a temperature as Meteor, but if they are planted at the cool end of the house, or if the heating pipes can be changed a little so as to give a difference of from three to six degrees between the two ends of the houses, any of the above varieties may be grown with fair success in the same house with Meteor.

ROBT. SIMPSON.

Carrying Roses Over for Two Years.

Will Perle, Bride, La France and Kaiserin roses, if carried over for two years, give as many and as large flowers the second as the first year? If so, how should they be rested, and when should they be cut back? Should more soil be put on top of the bed?

E. W.

Pennsylvania.

As to the first question "Will Perle, Bride, Kaiserin and La France, if carried over for two years, give as many and as large flowers as the first year," the consensus of opinion is that roses generally do not give as many blooms the second year as the first (there are certainly some notable exceptions to this rule). I have seen two-year Perles produce in one month an average of 15 blooms per plant. The flowers are apt to be just as large, perhaps larger, on the two year old plants, but it is very necessary in order to have success that the plant at the end of the first year be in perfect health; resting a plant will not make it healthy.

If the roses in question are expected to bloom all through the winter months they should be rested in the summer, say during July, August and September, and at this season they can only be rested by withholding water. If it is the intention to have roses during the summer months this the season to rest the plants, and it can now be done naturally by gradually lowering the temperature until a point just above freezing is reached, at which temperature the house may be kept for

from four to six weeks; they will then be in proper condition for pruning. Some growers have good success from pruning this class of roses hard back, but I prefer to use the shears rather sparingly, trimming out the small stuff from the bottom of the plant and shortening back the strong shoots only a little. After resting in summer by drying off for about six weeks the plants may safely be pruned.

It is customary to loosen up the surface of the soil after clearing off all the leaves, etc., and give a good top dressing of half half manure and half soil with a good dusting of bone meal added. Should a considerable percentage of the plants show signs of disease a better plan is to lift the healthy ones and transplant in fresh soil, giving shade for a few days.

ROBT. SIMPSON.

A Case of Eel-Worm.

A subscriber living in Washington, signing, himself D., sends specimens of diseased roses, and asks the name of the disease and cure for same. The specimen received proved to be the very worst case of eel-worm that has come under my notice, the roots being completely matted together. It is impossible that such a plant could recover, or even exist for any length of time. If the plants are all in this state would advise D. to spend no time trying to doctor them, to dig up and burn will be the best remedy. If he is wise he will procure stock from healthy plants elsewhere and if possible change his soil. Much has been said in these columns during the last four months in regard to eel-worms and I would advise D. to carefully read the same and if possible carry out the suggestions there given.

ROBT. SIMPSON.

Fancy-leaved Caladiums.

Among the fancy-leaved caladiums are found some of the most striking foliage plants for exhibition purposes and for conservatory decoration, while a number of the stronger growing varieties are admirably adapted for outdoor hedging, providing they are given a somewhat sheltered position and an abundance of water. The varieties referred to in the present article are more or less representative of the various types of garden origin, and having been derived in a great measure from *Caladium bicolor*, a native of the lowlands of eastern Brazil, are most happy in a warm and moist atmosphere.

The culture of caladiums is quite easy, liberal treatment both in soil and moisture being one of the first rules to be observed during the summer, the season in which their growth is made, while during the winter they can be stored under a bench in a warm house and will only need an occasional watering to keep the tubers plump and to prevent dry rot. In the early spring (between March 1 and March 15 is a good time) the tubers should be started into growth, and this is also the season for propagation, the latter being effected by slicing off small portions of the tuber with an eye or bud in much the same way that potato sets are treated, except that the caladium sets are much smaller. It is a wise precaution to dip the cut surface of the tubers in some air-slaked lime to prevent rotting, and they should then be planted in pans or flats of sand or light, sandy soil, placed in a warm house and kept moist, and in a short time will be started enough to be potted off into small pots.

If large specimens are required for exhibition

the tubers should not be cut to any great extent, but should be potted in either 4, 5 or 6-inch pots according to the size of the tuber, using light sandy soil for the first potting, and should be given but a small quantity of water until growth has fairly commenced, a little bottom-heat and a temperature of 65° or 70°, being most suitable for this stage of the operation. After the tubers are nicely rooted, which usually occurs by the time the first leaf expands, the plants should be given a shift, from a 4-inch pot to a 6-inch or proportionately for the larger sizes, and a somewhat heavier compost may be used, in which is mixed from a fourth to a third of short manure. From this time forward the main points to be remembered in caladium culture are abundant watering and plenty of stimulants, and the temperature of the house in which they are grown should not go below 60°, but a short time before using the plants for exhibition they should be hardened by increased ventilation, else the foliage might flag upon exposure.

When in full growth these plants should be regularly syringed to prevent the appearance of red spider, but after the growth is completed and the foliage begins to show signs of wear water should be gradually withheld until the leaves are all gone, when the plants can be stored away as before directed, either leaving the tubers in the pots in which they have been growing or shaking them out of the soil and placing them in boxes of sand, the former method being preferable, though not always convenient from lack of space.

The following list, though necessarily incomplete, includes some of the best varieties, and is probably sufficiently large to supply the needs of many growers.

The first, *Caladium argyrites*, is quite a dwarf grower, seldom getting more than one foot in height, and has light green leaves that are much veined and blotched with pure white. Being so small in growth it is better to plant several tubers in a pan in order to make an exhibition specimen, but whether this is grown singly or in mass it is one of the most beautiful kinds in cultivation.

Alfred Bleu.—A strong grower with large green leaves, the center of which is marked with flesh color, and the remainder spotted with white.

Baron de Rothschild.—Deep red center and red spots on green ground.

Belleymer.—Leaves mostly white with dark green veins, and sometimes flushed with pink.

Chantini fulgens.—Very handsome metallic green leaves with white spots and crimson center.

Clio.—Foliage rose colored, shading to white, and with green veins—a very beautiful variety.

Dr. Boissudual.—A strong grower with large leaves marked with crimson and white somewhat in the style of Chantini, but quite distinct.

Duchartre.—Very good as a large specimen, the leaves being mostly white with green veins, and spotted with red.

E. G. Henderson.—An old sort, but good for variety—rose spots and crimson center.

Felicien David.—Center of leaf dark carmine, surrounded with white and veined with red.

Golden Queen.—Leaves golden yellow and very beautiful, but most of the yellow varieties are not very strong growers.

Lamartine.—Crimson center, with white and red spots.

La Perle du Bresil.—Particularly at-



FANCY CALADIUM ALBERT VICTOR.

tractive; leaves white, flushed with rose, and veins dark green.

Louise Duplessis.—Also very good. Leaves white with green margin, and veined with red.

Meyerbeer.—A strong variety with white leaves, veined with green and having red mid-rib.

Murillo.—Foliage having metallic sheen, center red, and with crimson blotches.

Prince Albert Edward.—Very large leaves, the midrib and veins red, and the dark green ground much marked with white.

Princess Alexandra.—Rose colored leaves with green rib, and bordered with crimson; very handsome, but somewhat weak.

Some idea of a nicely grown specimen caladium of moderate size may be had from the accompanying cut of C. Albert Victor, also a good variety, and fairly represented in the illustration.

W. H. TAPLIN.

Violets Damping.

In regard to violets damping off, I would recommend coke screenings instead of sand, as the latter closes up the ground too much, whereas coke keep the same open. I have used it to great advantage with primroses and other soft-wooded plants.

I find this also an excellent material for propagating and use it either clear or mixed with sand according to the condition of the plants to be propagated. For soft-wooded cuttings or succulents I generally use it clear. Cuttings in this material will seldom damp off and they root very freely. I have also used it for mixing with potting soil instead of sand with excellent results, and of course it is good for drainage on benches.

The coke screenings can be had at almost a less cost than sand. Often they may be had simply for the hauling, though of course they must afterward be sifted to suit.

This is not anything new. We used it in Erfurt long ago and have always preferred these coke screenings to sand, being more porous and not liable to sour, also warmer than sand. HENRY MELDE, California.

Water Supply.

I wish to secure my supply of water for two greenhouses, each 20x100, and an acre of ground from a well with windmill.

How large should I make the supply tank and how high place it to gain the proper force of stream for watering roses growing under glass, using one-inch hose? How should I arrange to keep the water in the tank from freezing, if so needed, by cheapest means?

Will mineral or slate water, which we find here very much, damage plants?

Defiance, Ohio. CHRIST WINTERICH.

In building a water tank for the purposes indicated it is best to make provision for a reserve supply, for windmills sometimes fail at a critical time from lack of wind. It would therefore be best to have a tank of not less than 5,000 gallons capacity, and a still larger one would probably prove a good investment in a dry season, the watering of outdoor stock requiring a very large amount of water if done thoroughly.

If the bottom of the tank is elevated 35 feet above the ground it will give a pressure of about 15 pounds per square inch on the hose, allowing a small margin for loss from friction. This pressure will answer fairly well for syringing roses, if a nozzle with a small aperture is used on the hose.

If the greenhouses are heated by steam I would suggest running a line of steam pipe up into the tank to a coil placed in the bottom, in order to prevent freezing, but if this is not available the next best method would be to place a small base

burning boiler (such as are used for laundry heating, etc.) beneath the tank, and run connections of 1½-inch pipe from the boiler to the coil in the tank. The cost of such an arrangement would probably not exceed \$35 or \$40, and the expense of running it would be but a mere trifle.

It is impossible to say whether the use of "mineral or slate water" would be injurious to plants without knowing what minerals are contained therein, and this could only be properly determined by analysis.

W. H. TAPLIN.

Carpet Bedding—Poppies.

Although "carpet bedding" is fast traveling to the rear, I am still required to plant each year a particular bed with a certain design, viz: two letters with background as fancy as possible. The bed is 5½x8 feet and in close range of drive and sidewalk. Alternanthera, coleus, pyrethrum and feverfew have all been used in turn and have, to me at least, become somewhat monotonous. Will some kind friend suggest a change with a big C. I have been thinking of sedums and portulacca? What about the portulacca? What is the best sedum, medium height? More light.

I also would also like some advice about poppies. I want a 14-foot bed of Shirley and other singles, but am in doubt in regard to the best way to get them there. To sow the seed to follow late tulips would hardly do; to transplant is also difficult.

F. H. C.

Why not try santolina, variegated thyme, variegated sage, echeveria or cacti? They are all excellent background plants and their colors will harmonize with almost anything. The trailing variegated abutilon makes a beautiful carpet and can be kept very low. As to the sedums, there are some that are fine. If he is in search of a pale blue or lavender, *S. caeruleum* is exquisite. If he wants a solid carpet of green there are a number of the terete-leaved sedums that are good. In England *S. lydium* is much used. Our native western *S. stenopetalum* is good also. If the flower is not wanted, these sedums will stand any amount of shearing and can be propagated with the greatest ease.

In regard to the Shirley poppies to follow late tulips, if he does not wish to sow them where they are to stand and has difficulty in transplanting them, he can start the plants in small pots, one to the pot, and he will then have no trouble in making them live when set in his border.

Buffalo, Feb. 14, 1896.

J. F. C.

Swainsonas Not Blooming.

Would like to know why my *Swainsona alba* do not bloom; I planted them on a bench in my carnation house in September (temperature 50° at night), in four inches of soil. They are healthy, but the buds all dry up as soon as they form, and they have not produced one bloom all winter.

SUBSCRIBER.

It is not easy to make reply without seeing the plants and the conditions under which they are growing. It may be that the soil is too rich, as the *swainsona* will not stand much rich food; or the soil may be kept too wet, as it does not like too much moisture. If the soil is in any way loose it is best to pound it solid, and keep the bed rather on the dry side than giving it too much water. In all my experience I have never seen the buds dry

up in the temperature indicated, excepting when manure water has been given, especially that which contains too much nitrogen. E. L.

Pteris Tremula.

How is *Pteris tremula* propagated? If from seed please state when and in what temperature they should be sown, also where the spores can be obtained from.

SUBSCRIBER.

Pteris tremula is propagated from spores, and if the latter are sown during March the seedlings should become useful little plants in 3-inch pots by next fall or winter. Fill some 6-inch pans or pots with fine soil, water thoroughly, then sow the spores on the surface, and cover the pans with panes of glass or place them in a propagating frame with a temperature of 65°, and keep them well shaded.

The spores are offered by some of the large seed houses, though it is perhaps more satisfactory to secure a few plants and grow them on for this purpose.

W. H. TAPLIN.

Adiantum Cuneatum in Texas.

Will *Adiantum cuneatum* do well here in central Texas? I bought some plants from the north in the fall of '94, transplanted them and had them in splendid condition the first spring, '95, but when the hot summer came they got climate fever and have had it ever since, more dying than living. O. O.

There seems to be no particular reason why *Adiantum cuneatum* should not grow well in Texas under proper treatment, unless the soil in which the plants were grown contained too much alkali.

This fern thrives ordinarily in good loam, but in the dry atmosphere that often prevails in your state will no doubt require a great abundance of water, and should also be shaded from full sunshine during summer. A low greenhouse or deep frame, well ventilated, would probably have some advantages over a greenhouse of ordinary height for the summer cultivation of *Adiantums* in your locality.

W. H. TAPLIN.

Wood Lice.

In the issue of December 28 last appears an article headed "Remedy for wood lice," signed Robt. Simpson, in reply to W. J. A., recommending sugar and Paris green, with directions as to its use.

We have tried it, and find the "half has not been told," for it knocks the wood lice sky high, in fact is the only thing we have found of the many so-called remedies which had any effect on them.

We found the next morning after applying the remedy that the wood lice had evidently been waiting for something of the sort, as they cleaned it all up nicely, and as a consequence were laid out and dead all over the rose beds.

Two or three applications each week for a time will rid the houses entirely of this pest, in fact is the only thing that will do it. Thanks to Brother Simpson.

Evansville, Ind. J. H. WADE & Co.

Evaporating Tobacco Juice.

In the absence of steam heat "Gardener" can evaporate nicotine in shallow pans over an oil stove or paint it on his pipes, and he will not evaporate too much if used with common prudence. There are several qualities of nicotine on the market

of different degrees of strength; full directions accompany the goods.

Has "Gardener" ever tried the freezing process for killing greenfly? A few degrees of frost for a few hours at a time will give the fly a decided set back and not materially harm the lettuce.

GEORGE SALTFOED.

Swainsonas.

The probable trouble with F. F.'s swainsonas is they have too much root room. If the roots find unlimited space to spread in the foliage will increase to an enormous extent, but with few flowers. If F. F. will cut away the soil around the plants, leaving about a square foot of surface to the plant and confine the roots to that space, he will probably get flowers in abundance. The plants need a little starvation. His temperature of 55° is all right. W. S.

Little Gem and Black Callas.

Replying to Wm. Stephan's inquiry as to growing Little Gem and black callas, I use a rich sandy soil, always keeping the plant in as small a pot as possible, and when thoroughly rootbound shift to one size larger, never using any larger pot than a 4 to 5-inch. I keep them at a temperature of 65° at night, giving plenty of water through the day.

JAS. S. WILSON.

Boston.

The shortness of crop at present on roses has the effect of keeping the market well cleaned up and maintaining prices regardless of the fact that Lent is with us. As to carnations the same conditions prevail, only in an aggravated degree, for in white carnations, which are more of a staple article than any other color, there is scarcely a grower who is turning out decent flowers. Mrs. Fisher, which has been hitherto the standard variety for this market, has gone back completely on even those growers who have made a reputation on this variety as a specialty; McGowan has never amounted to anything in this vicinity, and the result is that to-day prices ranging from \$2 to \$2.50 per hundred are being paid, of necessity, for the most miserable quality of stock. Colored carnations have to show quality before they can command good figures; white goes because it is white, regardless of grade. There is a little fortune awaiting the introducer of a white which will be an all round success in this neighborhood. Bulbous stock goes slowly as cut bloom, but for pans of hyacinths, narcissus or tulips there is a fair demand. Lilies are more plentiful and cheaper. Violets ditto. Smilax has shortened up and has advanced in price, with the probability of its going still higher before long.

D. F. Roy, gardener at the Converse estate, Malden, has an exceptionally fine strain of cinerarias in bloom at present, and the houses throughout are in better shape than ever before.

Geo. W. Wilson has been cutting a few Magnas and Brunners, but will not begin on the main crop for two weeks. The buds are tremendously large, and indications are for a crop of unprecedented quality.

David Allan has been obliged to give up business on account of ill health, and has gone to Biltmore, N. C., where he will be the guest of his friend, Robert Bottomley, and it is hoped his health will be fully restored under the influence of the salubrious climate.

P. Welch and Kenneth Finlayson have

both been on the sick list, but Mr. Welch has recovered so as to be able to come in to business, and Mr. Finlayson, whose trouble is nervous prostration, is slowly convalescing.

Thos. H. Flynn's residence at Wellesley Hills was destroyed by fire on the 9th inst., together with most of the contents. A flaw in the chimney was supposed to be the cause.

Ed. Hatch celebrated his own birthday on February 22 by inviting a number of his gardener and florist friends to dine with him. As usual, all had a good time.

Visited Boston: H. H. Battles, Philadelphia.

New York.

Spring-like weather combined with the cessation of society frolics begins to have its effect on the quantity of cut flowers in the market and the prices quoted, and unless the experience of former seasons is reversed depreciation and accumulation will be rapid. From present appearances roses will be the last to go. Violets and all sorts of bulbous stock are already badly in the dumps. Carnations have received a little benefit from the recent exhibition, and fancy bloom is in demand. Mignonette shows signs of over-stocking. Easter plant growers are bending all their energies and exercising all their skill and judgment in the effort to get everything in just at the right moment.

The carnation meeting attracted a larger number of visitors from a distance than has been seen here for a long time, and they made the most of their opportunity to inspect the many far famed establishments in the vicinity, J. N. May, C. W. Ward, Chas. H. Allen, Pitcher & Manda, J. H. Taylor, Ernst Asmus, Dailedouze Bros. and others all coming in for a good share of attention, which they repaid with generous hospitality. These jolly little excursions were not among the least of the enjoyable features of the convention.

Adolph Ladenburg, the wealthy banker who took such an active part in the initiation of the chrysanthemum shows at Madison Square Garden a few years ago, and on whose place at Westbury Station, L. I., Griffin's famous tuberous begonias are grown, was missed from the steamer Niagara on her passage from Nassau to New York on the morning of February 20, and it is surmised that he fell overboard during the night. Mr. Ladenburg was 37 years of age.

H. A. Siebrecht sailed for Trinidad, West Indies, on February 20 for a stay of ten or twelve weeks.

Visited New York: A. F. Woods, assistant Chief Div. Veg. Phys. and Pathol., Dept. of Agriculture, Washington, D. C.

The North Hudson County Florists' Club has elected the following officers: President, T. Baumann; vice-president, E. Baumann; secretary, P. Fisher; corresponding secretary, F. Lehnig; treasurer, H. C. Steinhoff; sergeant-at-arms, H. Steiger.

Pittsburg.

The general trade this week has been very fair, considering the falling off in large social events owing to the Lenten season commencing, and even with this drawback, the florists have been busy, but a great deal of their business has been funeral work. Stock is plenty and prices about as usual. Hyacinths and tulips are coming in in greater quantity and of good quality, while there seems to be no end to the stock of carnations.

Mr. McClements is out again attending to business after being confined in the house for a short time, he is not entirely well, but says he has not time to lay off at present. The other florists on the sick list on all reported as improving.

Mr. John Bader, Fred Burki, and Ben Elliott of Elliott & Ulam, have arrived home from the Carnation Society meeting; they were very well pleased with what they saw and report having had a very good time, being well entertained.

REGIA.

St. Louis.

A slight drop in the prices of roses was the only noticeable feature of the cut flower market the past week. In the retail line business is fully as good as might be expected in the days of Lent. There are no large weddings or receptions, but some of the West End florists are kept quite busy with dinners and luncheon decorations. Scanty production rather than large demand is responsible for the fact that there is as yet no troublesome overlock of anything excepting perhaps *Harrisii* lilies and valley. There are a great many poor roses coming to the market; of American Beauty this is especially true. The proportion of deformed discolored blooms is very large, and number one blooms are few and far between with most growers. Other roses in their class are plentiful and of improved quality, yet there is no apparent glut of any one variety. Brides and Bridesmaid bring from \$4 to \$8, Woottons go at \$3 and \$4; some extra fine bring \$6, Perles \$3 to \$4, Meteor is of much better color than it has been; good stock finds ready sales at from \$5 to \$8. Carnations are plentiful and of fairly good quality. The common sorts don't bring over \$1. Fancy such as Daybreak and Scott sells at \$2 and \$3. Bulb stock of almost every variety is very slow. Daffodils are a drug and Dutch hyacinths are only fair in demand. Valley is plentiful and cheap. Romans and tulips are good but very slow. *Harrisii* are coming to this market in large numbers and sell slow, and the market will be overstocked by the end of the week. Prices for extra good long \$8; most of the poorer ones are disposed of at from \$5 to \$6. There is little demand for callas. Southern violets are still coming in and sell at 10 cents per 100. Home grown hold their own at 25 cents; double \$1 and \$1.50. The weather opened up this week clear bright, and warm, and if it keeps up every wholesale house in town will be overstocked and flowers of all kinds will go begging.

An excursion made up of Emil Schray, F. J. Fillmore, Julius Koenig, Sr., and C. A. Kuehn, went over to Belleville, Ill., to pay a visit to the different florists, among those they visited were Wm. Huckle, E. W. Guy, Adolph Fehr, G. Grosshart, St. Clair Floral Co., West End Floral Co., and N. Semmler. They found Messrs. Huckle, Fehr and Grosshart sick, but the rest were up and enjoying good health. They report that each place looked in tip-top shape and prospects good for lots of cut blooms for the Easter trade.

Mr. James Colbert of Fort Scott, Kan., was a visitor and spent a week in St. Louis looking up his old friends. He will return in a few days to take his old position with Mrs. Patterson.

The next meeting of the Florists' Club will be held Thursday afternoon, March 12, at 3 p. m. The club expects a lot of new carnations to be shown by those who could not get them here in time for the last meeting, and other very impor-

tant business will come up. A large attendance is expected.

Thomas Carroll expects to cut a large lot of white sweet peas for Easter.

Mr. Geo. M. Kellogg of Pleasant Hill, Mo., was a visitor this week. Mr. Kellogg says that he is about to build four new houses; each one will be 300x30, all of hard wood, and expects by June to have 35,000 feet more glass, making a total of 100,000 feet. These new houses are being built for American Beauties only.

The Bowling Club had a very interesting meeting Monday night, and ended the series of 13 games. In the roll Monday night the highest three games rolled were by J. J. Beneke, 595; second C. Beyer, 567; third C. Kuehn, 548. The highest single score was made by J. Young, 247; second C. Beyer, 206; third Beneke, 205. With the series just ended J. J. Beneke wins the medal with 2,544 in 13 games, F. C. Weber second with 2,389 and D. Helwig third with 2,241, the highest single game rolled during the series was made by F. C. Weber, 261; second J. Young, 247; third E. Schray, 240. Chas. G. Fleckenstein and all Bauer, commission men became members of the Bowling Club, and will roll with the club every Monday night. J. J. B.

Toronto.

Last week trade began well with the bal poudre and several other large social entertainments, but since the advent of Lent and the donning of sackcloth and ashes by all the good and pious people of this pious city, all such frivolities are laid aside until after Easter. However Lent even could not prevent people from going to hear Albani on Friday last, on which occasion a considerable number of flowers were used. Several notable citizens have even gone so far as to die since Lent came in too, their demise creating a demand for a good lot of large designs, so that putting all things together Lent has not made itself much felt among the florists yet.

Dunlop reports roses coming in in larger quantities and very fine now although there are not enough yet to meet the demand. Meteors especially are very good and of splendid growth of stem. Country retail trade not so large this week. Azaleas have been selling very well this year, though the plants have averaged a smaller size. Hyacinths in pots made quick sales if offered before being too fully grown.

The Gardeners and Florists' Association meeting was again a lively and very interesting one. After routine business Mr. E. Collins of the Horticultural Gardens read a paper on his method of cultivating cyclamens and there was a good discussion thereon. The postponed discussion on Mr. Tidy's question how to protect the retail trade from the effect produced by departmental stores was then taken up. These stores are Mr. Tidy's bete noir and there is no doubt but what the retail stores do feel the effect of them just now and no doubt some of the smaller stores will have to shut up, but it seemed to be the general opinion that men doing the class of business that Tidy and Dunlop and a few others do will have no trouble in holding their own by always keeping the best stock, even if they have to pay a little higher price for it. Departmental stores will do a different class of business and many people buy flowers and plants there who would never think of entering a florist's store. The extent of the trade generally will thus be consid-

erably enlarged, making it better for the growers and the few high class retail stores left. One or two of the speakers thought that the departmental stores would soon get tired of the business, but others again thought they were in it to stay. At any rate they are changing old methods of doing business and the man who does not catch on to the changes and keep himself up to date is going to get left. E.

Washington.

The season which closed last Tuesday was one of the most brilliant for a number of years at Washington. Both the official and resident circles have entertained handsomely and extensively, the only complaint being that the time was too limited. There have been no complaints heard of nothing to do for the coming forty days and nights. The program up to date is filled with amusements. While society may not indulge in dancing, card parties, musicals, readings and various other forms of amusements will still go on.

The final cabinet dinner of the season in honor of the President and Mrs. Cleveland was given last Tuesday evening by Secretary and Miss Morton. The idea that was effectually carried out was novel and unique, and suggestive of agriculture in every way. The decorations of the dining room were novel and effective. The ceiling was decked with a net work of smilax, in which burners of incandescent lights gleamed. The mantels were banked with adiantum and red carnations, the mirror frames wreathed in smilax in which were red, white and blue lights. The centerpiece was a large plow made of red carnations and smilax. Four large stacks made of yellow spun sugar and piles of miniature vegetables made of sugar were placed near the centerpiece. At the four corners of the table were wheelbarrows containing confections in the form of vegetables; the ices were served in tiny hay wagons; punch was served in the shape of apples, peaches and pears.

Another brilliant event of the winter and the one for which the most elaborate and lavish preparations are made was the Washington Assembly, which took place last Monday evening at the Arlington Hotel. The ball room of course was the center of attraction. The ceiling was covered with southern smilax, in which were set hundreds of electric lights. The mirrors (which begin 4 feet from the floor and extend to the ceiling) were framed with galax leaves. Huge white and magenta bows of ribbons were arranged among the garlanded mirrors with striking effect. The only flowers used in the room were jonquils, thousands of these spring flowers being used in banking the mirror rests. At the end of the room screening the orchestra was a bank of palms. The five recesses were banked with palms and ornamental foliage plants to produce a grotto effect. The four large parlors which on this occasion formed a suite were elaborately decorated. The first drawing room of this suite was decked with long-stemmed American Beauty roses, palms and foliage plants. Suspended over the mirror was an immense wreath of box tied with Beauty ribbons, the end of which were lost among the plants at the base. Upon the table in the center of the room was a large vase containing 75 of these gorgeous blooms. Parlors two and three were also decked with palms. Suspended over the two mirrors was a wreath filled with cattleyas, tied with ribbon the shade of the flowers. The base of the mirrors was a

mass of Farleyense and cattleya. The doorway leading into the ballroom was framed with plants. The adjoining room was also an American Beauty room. Supper was served on 56 small tables; in the center of each table was a vase filled with roses; Beauties, Bridesmaid and Meteor, with sprays of lilac were the flowers used on these tables. The favors were of jonquils and pink carnations, 75 of each.

REYNOLDS.

Philadelphia.

There seems to be enough doing to keep things from becoming stagnant, and there is no present danger of a glut such as is expected in Lent. The weather has not been favorable to an overproduction, in fact in some lines there has been even a scarcity, good Beauties being quite hard to find. Most of the other kind of roses are to be had of fair quality. Prices remain much the same, with a tendency to a lower range in a short time. Quite fair Brides, Bridesmaids and La France can be had for \$6, while the best sell for 8 to 10. Brunners are in fair supply at from 3 to 4 per dozen. Smith & Whitely, Anderson, Burton and Heacock are all sending in this variety. Messrs. Lonsdale and Craig have Morgans in quantity, considering the amount of square feet of space occupied; this rose is becoming a favorite with the public on account of its good keeping qualities.

Carnations are plentiful and will be likely the first flower to accumulate; as yet they go fairly well at \$1.50 to \$2, with the culls selling for from 5 to 10 per thousand. Violets are moving lively at from 50 cents to \$1 per hundred, according to quality, the common figure being 75 cents. Valley, tulips and daffys move slowly, valley particularly being hard to sell. The commission men are receiving big lots of stock. S. S. Pennock has carnations by the thousand, and an order for from fifteen to twenty thousand could be filled at almost any time. He handles quantities from the Chester and Lancaster County growers. Thompson Bros. of Kennett Square are sending him large lots of Eureka, their new pink, a good seller; thousands of McGowan are also sent in by this firm. J. L. Edwards sends fine Portias. C. P. Bernard sends in Daybreak by the thousand, his last shipment numbering over two thousand. H. K. Hicks has fine Scotts. E. J. Weaver of Lancaster County has extra fine Daybreaks and Portias; his violets are also good. Jacob Weaver is cutting some very fine Scotts. Mr. Pennock says that carnations have run better this season, the quality being more uniformly good than in previous years. W. J. Baker is also receiving fine flowers from his consignors. G. F. Christie of Clifton Heights has number one Daybreaks, and his new seedling Sunshine is hard to beat. W. P. Brinton, Christiana, sends in fine Tidal Wave. Scott and McGowan. J. J. Styer of Concord has Thos. Cartledge, Scotts and Portia that always bring top prices. Old Hinze's White is still doing well by Sanders of Roxborough and sells well. J. S. Ashbridge, Downingtown, sends Brides and La France that sell at sight. Mr. Baker reports business as very good, the past month being particularly so.

John Albrecht, West Laurel Hill, is building a residence and adding two greenhouses to his plant.

John Brogan, the Eighth street florist, is about to open a store on Ridge avenue, above Broad.

La Roche & Stahl are about to move to 11th street, above Chestnut street; a

raise to \$7,000 a year was a little too much even for their very desirable corner.

The next meeting of the Florists' Club promises to be a very attractive one. The social features are to predominate, and if the half that is promised by the chairman of the house committee, Mr. Westcott, materializes, no one will go away dissatisfied. There is to be a social feast, singing, recitations and speeches. Pipes and something to fill them will be within reach. A substantial lunch with all the etceteras is also in the bill, and all that is needed to make the occasion a most enjoyable one is a good attendance. "Come one, come all," as they say on the show bills; let there be an old time gathering.

Visitors in town: W. J. Palmer and D. B. Long of Buffalo; E. G. Hill of Richmond, Ind.; Mr. Nicholson of Boston, E. Wienhoeber of Chicago.

We miss that bright Buffalo letter; expressions of sympathy are heard on all sides for Mr. Scott and the hope expressed that his recovery will be a speedy one.

John Burton is laid up with a bad cold.

The boys who attended the carnation meeting in New York returned home very much pleased with their trip, and especially were they delighted with the hospitality enjoyed at the hands of the New York Florists' Club. The banquet with its magnificent decorations and the unbounded goodfellowship of the members, who did all in their power to make everybody happy, made the occasion one that will ever remain a bright spot in the memories of those fortunate enough to be present.

K.

Chicago.

The combination of warm bright weather and Lenten dullness has changed the conditions of the flower market and prices have dropped decidedly. The rose growers who were cutting few flowers for two or three weeks have all come into crop at once and flowers are very plentiful and improved in quality. Very fine Brides and Bridesmaids of a size and color to gladden a grower's heart are being cut by Reinberg Bros. and Bassett & Washburn. The latter firm shows some Siebrecht of the large size and rich glowing color seen in the advance specimens before the rose was disseminated; it is true the stem is still weak, but there is sufficient inducement to expect better results next year.

Carnations are more than plentiful. Prices have dropped to 50 cents in large lots and we hear of an order from a neighboring city from one of those philanthropists who sell everything from a paper of pins to a house and lot, for 50,000 carnations at this price. No doubt they will be sold on the bargain counter for about 11 cents a dozen and we may expect a touching lament from the florists in consequence. Good stock stands at about 75 cents to \$1.25, with fancies at \$2.50. Daybreaks are very plentiful. Violets are in large stock, prices varying from 25 cents to \$1. Bulb stock has not dropped much, because it couldn't go much lower. Local trade is poor, but the fakirs who had been hibernating for some months, have bobbed up again and patrol State street to avoid the removal of stands, which are now interdicted by the city authorities. Shipping trade from small towns is good; from large cities it is very dull.

At the meeting of the Florist Club last Thursday evening seven new members were elected and much other routine business transacted. A large plant of Cali-

fornia violet bearing 35 open blooms was shown by Mr. Jas. Hartshorn. He is very favorably impressed with the variety, which he finds bears probably ten times as many flowers per plant as M. Louise. He has found a ready sale for all the flowers he has cut at 75 cents to \$1 a 100.

The executive committee of the Horticultural Society of Chicago has completed the preliminary schedule of premiums for the chrysanthemum show of 1896 and same will soon be printed and distributed. There will be some very interesting new features.

Mr. W. N. Rudd's new daughter has taken up so much of his time that he has been absent from the last two meetings of the Florist Club. A committee will probably wait on the young lady and endeavor to secure a special permit for the absence from home of her papa on club meeting nights.

Mr. Fred Kanst returned recently from a trip through the east.

Dr. John M. Coulter has resigned the presidency of Lake Forest University, and has accepted an offer of the chair of botany at the University of Chicago.

Mr. T. J. Corbrey has begun suit in the superior court against Otto Mailander of Niles Center for \$15,000 damages. Recently a number of attachment suits were begun against Mr. Corbrey, and he claims that during his absence in California Mr. Mailander circulated stories about him which stirred up creditors to attach his property.

St. Paul.

Trade in general has been excellent. Everything has found a ready market, and February, like its predecessor, has been a busy month. Last week there was a great scarcity of roses and carnations. On several days everything in the city was sold, and several hundred more roses and carnations could have been easily disposed of. Stock as a rule is in excellent condition, and the quality of blooms unsurpassed. Funeral work has created a big demand for Harrisii lilies and other bulbous stock, and the supply has not been sufficient. The demand for Harrisii this year has been unusually large and growers who force it in any quantity are getting good returns from it.

E. T. Lemke recently had a large funeral order requiring several hundred dollars' worth of flowers. L. L. May & Co. have also had a large number of funeral orders lately. During the Lenten season we do not expect as large a trade as during January and February, but each year shows increased trade during Lent.

The Florists' Society met at the Hotel Ryan on Thursday evening, February 13. Mr. A. S. Swanson read an able paper on chrysanthemum culture and chrysanthemum shows, which was afterwards quite thoroughly discussed by those present. A committee of five was appointed to formulate plans for an exhibition another fall. By getting the question agitated at an early date we hope to see a rousing show another fall.

The city greenhouses at Como Park are being rapidly filled with choice bedding plants, and we hope to see the parks dressed gayer than ever when summer comes again. With the limited means at his disposal Supt. Nussbaumer is to be congratulated on the showing made in the past. This year he is propagating a number of aquatics, and expects to have a very fine lily pond. He has quite a large stock of Strobilanthes Dyerianus, and considers it an excellent bedding plant.

H. Schulze on Lafond street has recently added a house 10x50, short-span-to-the-south. This is now filled with spring bedding plants. The coming season he intends erecting another house of the same dimensions. His place, though one of the smallest in the city, is also one of the neatest, and his stock is in good condition. His principal trade is in bedding plants, which he sells on the market.

J. C. Fleischer & Son have four houses devoted to growing roses, carnations, vegetables for the early market and a general line of bedding stock. Mr. Fleischer has been in business here for 25 years, prior to which time he was engaged in the newspaper business. He has grown old and gray in the business, but carries his weight of years more lightly than many a younger man. His talk is full of reminiscences of the past in this city, which he has seen growing from a village of 4,000 to a city of 150,000.

Recent callers: H. A. Johns of Sioux City, Ia., and C. H. Parmelee of the Jno. H. Allan Seed Co., Pictou, Ont.

Chas. Vogt is opening a new store on Wabash street in a most desirable location. He will retain his other store in the city market for the present.

W. R. Roach, representing J. B. Rice & Co., was a recent caller. FELIX.

Rochester, N. Y.

The past week has brought on a decided change in business, and we may say that dull times have set in for our florists. Lent came in, not only with decidedly lower temperature, the thermometer away below zero and very blustering weather, but also with a great falling off in the hitherto fairly brisk trade in flowers. Still, as business during Lent for the past few years has not been strictly dull on an average, a reaction is hoped for within the next few days, and the bad commencement may be wiped out. In one way the slow trade relieved the storemen to some extent of the anxiety which was felt by everyone in procuring a sufficient quantity of flowers for their orders, and now although the supply is still rather short, orders can be executed without much trouble. Flowers, especially the carnations and violets which came in for the past week, are of a much better quality than those we have been getting lately, but more of them might be used if they were offered. The only article which is over-plenty at present is the Holland bulbs, which for a week past have accumulated without much demand.

An enjoyable event took place in the past week, when J. W. Keller was married to Miss Libby Hahn at the bride's home among a profusion of flowers, palms and greenery. Mr. K. is our wholesale florist, and kept the coming event very quiet, so that none of the florists knew the exact date of the wedding, although they were expecting such a thing in the near future. I am authorized by a number of his friends to congratulate him heartily. J. B. K.

Cincinnati, O.

Business the past week has been good all around, several social events having occurred. Among these Mr. B. P. Critchell had the decoration at the Scottish Rite Cathedral in honor of ex Gov. Foraker on February 14. The table decoration consisted of roses, carnations and silk flags. Several loads of decorating plants with hunting and smilax were also used. The whole made a striking effect. This firm had also a large wedding decoration on

February 17. Roses and Kresken carnations were used on this occasion.

The regular monthly meeting of the Cincinnati Florist Society will be held March 14. This will be a special rose meeting and all those having roses to exhibit are requested to send them to E. G. Gillett, 316 Walnut street, who will see that they are staged correctly.

Mr. H. L. Sunderbruch returned from the American Carnation Society meeting at New York. He reports being well pleased with the display and cordially welcomed.

Mr. Ben George of College Hill, has our sympathy in the loss of his child February 24. H. SCHWARZ.

Buffalo.

At the last meeting of the Florists' Club nomination of officers took place. The nominations were as follows: President, E. I. Mepsted; vice-president, S. A. Anderson, Chas. Buechi; secretary, Wm. Legg, renominated; treasurer, W. F. Kasting; financial secretary, H. B. Buddenberg, George Asmus. The election takes place the second week in March, followed by a banquet and general good time.

Our only representative at the Carnation Society's meeting in New York arrived home Wednesday morning.

J. H. Rebstock has obtained a judgment against the United States Express Co. for \$97.45, being the value of flowers which the company failed to deliver at a wedding in Norfolk, Va. P. S.

Syracuse, N. Y.

The great charity ball was the last large social event before Easter. Florists have every reason to be satisfied with their winter trade.

The weather the past week as been unprecedented in the memory of any resident, and it is safe to say that it will be many years before it will be forgotten. For nearly 40 hours the thermometer registered 28 below zero, with a brisk wind and not a flake of snow to cover the greenhouses. So far I have not heard of any serious loss, but should not be surprised if some were caught. Your humble servant was on duty for 43 hours and would have been pleased to have met that weather prophet who was here last fall telling of what a nice open winter we should have. H. Y.

AMONG recent arrivals at New York was Mr. John Speelman of C. J. Speelman & Sons, Sassenheim, Holland, on his annual trip through the United States.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By a competent all round florist and gardener; 16 years' experience; age 31. First-class reference. W. R., care Am. Florist.

SITUATION WANTED—By a first-class grower, to take charge of a place. \$12 to \$15 per week wages. Address A. F., care American Florist Chicago.

SITUATION WANTED—As foreman; a thoroughly practical grower of cut flowers and decorative plants. References. G., care American Florist.

SITUATION WANTED—In a commercial place, by a young man of 34 years experience. State wages with board. F. G. BEHLING, Y. M. C. A., Scranton, Pa.

SITUATION WANTED—As florist and gardener by a married man of small family; good habits; private place preferred; good references. F. B., care American Florist.

SITUATION WANTED—As manager or foreman; a practical grower of cut flowers and decorative plants; references. Address MANAGER, 1019 Vine St., Philadelphia.

SITUATION WANTED—Gardener; English; single; age 26; experienced in general greenhouse work, flower-beds, care of lawns. Good vegetable grower. ROBT. MAIN, 64 North St., Gloversville, N. Y.

SITUATION WANTED—As foreman and grower of roses, carnations, violets, palms, all kinds of florists stock. States preferred. References. GEO. NOBTON, Box 377, Brockville, Ont., Canada.

SITUATION WANTED—As headgardener. First-class ability in all branches of gardening. First-class references. Family of two. Address P. ROBERTSON, care H. Wietor, Hahridge, Chicago.

SITUATION WANTED—By an experienced grower of cut flowers and general stock, as working foreman. Married, age 35. For particulars and references address E. ROBERTSON, Little Silver, N. J.

SITUATION WANTED—As foreman in a commercial place; good cut flower and plant grower. Married. First-class references furnished from present employer. Address with full particulars. C. M., Box 933, Knoxville, Tenn.

SITUATION WANTED—By a young man skilled in growing general greenhouse stock, sober and industrious; 8 years' experience; permanent place preferable to high wages; east preferred. Address WESTERN, care American Florist.

SITUATION WANTED—As foreman, by a hustler, who does not call throwing dollars on the rubbish pile broken pots, or dirty houses, experience. Write to me. 20 years' knowledge. W. A. H., care American Florist, Chicago.

SITUATION WANTED—By a practical all round Scotch florist; long experience in this and other countries. Single. Can furnish the best of references. State wages. Address J. H., No. 13 South Pond St., Newburyport, Mass.

SITUATION WANTED—By young man, aged 21, as assistant at growing roses, with some first-class florist, where there would be a good chance to improve and advance; 7 years' experience. State wages, etc. Address ROSES, care American Florist.

SITUATION WANTED—By a middle aged florist and gardener; no children; temperate; well experienced in every branch of horticulture, especially greenhouses. Good private place preferred. Best references from prominent employers. Address E. M., care American Florist, Chicago.

SITUATION WANTED—By young man, age 30, single; thoroughly experienced in the growing of roses, carnations, chrysanthemums and general greenhouse stock. Good designer and decorator. References. Please state wages. Address J. COOK, 490 Drexel Boulevard Chicago.

SITUATION WANTED—By practical all round florist; German, age 35, single; 14 years in last place, and 18 years' experience in propagating and growing roses, carnations, violets, chrysanthemums, etc., and pot plants. Good references. Address FLORIST, 180 Fo 1 St. East, Detroit, Mich.

SITUATION WANTED—By good competent florist, as working foreman or assistant; commercial or private place. Graduated from a horticultural school in Sweden; 11 years experience; 5 years from one of the leading rose establishments of America. Strictly temperate; energetic; single; age 27. Good references. Address 333 Sayin Hill Ave., Dorchester, Mass.

SITUATION WANTED—By well educated, energetic German florist; 14 years' experience; good manager; first-class bedder, designer and all round grower. Have been employed at some of the best establishments of Germany, France and Switzerland; in this country 6 years; in present place 4 years. First-class references. Address R. W., care American Florist.

WANTED—A young man for general work around greenhouse; must be of good habits. A Christian man will have a good home. Apply to DAWES & WHITTAKER, Rogers Park, Chicago.

WANTED—A good rose grower; one who is capable of taking charge of large commercial place. State where last employed, and wages wanted. Give references. Address ROSE, care E. H. Hunt, 68 Lake St., Chicago.

WANTED—Two men of experience, unmarried, to grow roses and carnations; must have references and not afraid of work; also who want to stay at one place for two or three years. To go to California. Address CALIFORNIA, care American Florist.

FOR SALE—Fremont greenhouse. Business and location good. J. STARKEY, North Bend, Neb.

FOR SALE—Fifteen greenhouses, five acres, dwelling, barns, completely equipped florist's establishment and business for sale; located in the 21st ward, Flatbush, Brooklyn, N. Y. A fine opportunity to obtain an established business. Apply to HENRY W. SHERRILL, 13 Willoughby St., Brooklyn, N. Y.

FOR SALE—22 greenhouses and 5 acres land, about 1 acre under glass, with or without land and in good condition houses filled with stock; will be sold at a bargain if taken at once, as I intend to go out of business. For information address P. J. DEUSTER, 98 Winnemago St., Milwaukee, Wis.

WANTED

For San Francisco, a thoroughly well trained man to take full charge of about 10,000 feet of glass. Must understand culture of cut flowers principally carnations and all bulbous stuff, and possess a good knowledge of greenhouse culture of ferns, palms, camellias, azaleas, etc. Only one not afraid of work, and possessing best of references as to honesty and reliability wanted. Married man preferred. Wages \$5.00 per month, with increase, and a permanent situation to the right man. Address H. H. BERGER & CO., San Francisco, Cal.

FOR SALE.

Established vegetable and flower business; five acres of land, five greenhouses, 7,000 feet of glass; everything complete to carry on the business; a paying business and splendid location. Price \$3,000. Address X. Y., care American Florist.

Passaic, N. J.

At this place Mr. McAllister says the demand for cut flowers this season is rather better than last, the favorite color being pink. At a recent euchre party the favors were Bridesmaid roses for the women and Scott carnations for the men. A favorite combination in cut flowers here is freesia, Scott carnations and mignonette.

Wm. P. Kesteloo reports trade good this season. At his greenhouses at Garfield he has several houses of the Van Leeuwen carnation. The color is very fine and they have flowered well all winter. They grow on fine long stems. Goldfinch also is doing very well here. Mr. Kesteloo has in flower some very fine French stocks, white. His Holland mignonette is very good also.

We also noticed here a very pretty house plant, the Bermuda buttercup oxalis, the flowers of which are a pure bright yellow and very abundant. Some handsome new coleus, raised from imported French seed, by Mr. Kesteloo, is very distinct, the coloring and marking is very different from any of the old varieties and the plants are all strong and healthy.

At their places at Clifton, W. H. and Geo. Young are growing some fine Beauties. One of Mr. W. H. Young's houses, a new one 332 feet long, is in fine condition.

Mr. Geo. Young has two houses afflicted with "black spot" and this is still another proof that good growing cannot prevent this disease. S. M. T.

Tiffin, Ohio.

Mr. L. Ulrich has recently added one more house to his plant, the recent addition being a bulb house and covers 22x50. It may be interesting to state a few particulars regarding this house, as Mr. Ulrich's idea possesses the merit, which will doubtless commend it to many of the craft. According to his idea, to obtain the best results with bulbous stock the bulbs should be grown, or given a chance to grow instead of being forced at a moment's notice, as is generally the case. With this object in view and in order to put his theory to a practical test Mr. Ulrich has built a house especially adapted for the purpose and is quite enthusiastic over the results. The benches are constructed shelf-like, each bench consisting of three parts, each part varying in temperature from the others. A box of bulbs put in the lower part of the bench is in the course of a few days transferred to the middle, then to the upper part, and by the time they are wanted for forcing their stems are fully developed, both in size and in strength.

A sight well worthy of seeing is Mr. Ulrich's house of Asparagus plumosus. They average about 12 feet in height, being remarkably well grown. His carnations too look fine, despite the unfavorable weather of the past two weeks.

Homo.

Scale Insects.

I am making a special study of the scale insects of the greenhouse and garden and should be glad to receive any scale insects from readers of the FLORIST. I will determine them as far as I am able free of charge. E. E. BOGUE.

Columbus, O.

Would Be Preferable.

"Don't you long for the springtime," said the poetic youth, "when two young hearts can wander over the woodlands, picking flowers?" "Yes," replied the ordinary person. "I do." It would be a lot better than wandering around the florists trying to see where you can get the biggest bouquet or \$2.—*Washington Star*.

PROFITABLE SWEET PEAS.

FROM careful personal inspection of all the new and old varieties in the famous pea growing districts in California, and from actual selling qualities shown in the San Francisco Flower Market—the largest in the world for this flower—we find the following seven kinds, for size, stems, prolific habits and other most desirable qualities unequalled. They comprise the leading salable clear colors which are always appreciated. Fill seven vases each with 100 sprays of these, and set them in a row in your window, and you need fear no competition in your trade on this flower.

BLUSHING BEAUTY, clear Daybreak pink
HER MAJESTY, pure solid rose.
FIREFLY, bright fiery scarlet.
EMILY HENDERSON, best florists' white.
COUNTRESS OF RADNOR, soft lavender.
MRS. ECKFORD, largest good yellow.
BLANCHE FERRY, early pink and white.

PRICES.

1 ounce each, 7 ounces, postpaid, 35 cts.
2 ounces each, 14 ounces, postpaid, 60 cts.
1-4 pound each (¼ lbs.), postpaid, \$1.00.
YOUR CHOICE, prepaid, ounce 5 cts., 1-4 lb. 20 cts.; 1 lb. 50 cts.
EMILY HENDERSON, lb. 40 cts.; 3 lbs for \$1.00.
AMERICA, the new scarlet and white, pkt. 15 cts., 5 pkts. for 60 cts.
CUPID, dwarf white, pkt. 25 cts.

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NOVELTIES For FLORISTS and SEEDSMEN.

ROSES—White Rambler, Golden Rambler, New Climbing Meteor and Carmine Pillar.
CRIMSON RAMBLER—\$1.00 per 100. Field grown, \$15.00 per 100. Extra fine plants, 5 to 5 feet high, \$25 per 100. Other roses at low prices. Send for list.
SPIRÆA ANTHONY WATERER—The Crimson Spiræa. The Ideal Pot Plant for Florists. Introduced last year at \$2.00 per plant, our price to-day \$8.00 per 100.
BULBS—Chinese Sacred Lilies, \$4.00 per 100. Lillium Candidum, fine bulbs, \$2.00 per 100. L. Longiflorum, \$2.00 per 100. L. Speciosum Album, \$6.00 per 100. L. Spec. Rubrum, \$5.00 per 100. L. Auratum, \$3.00 per 100. All other bulbs.
CANNAS—12 New Cannas, our own raising, \$6.00, warranted satisfactory or money refunded. Crozy's Cannas of '94, 20 cts. each; set of 20, \$3.00. 50 named canines, 50 sorts for \$5. French Cannas, \$12 per 100.
DAHLIAS—All the latest introductions. Mrs. Peart the white Cactus Dahlia, \$10 per 100. Nymphaea, the pink cut flower Dahlia, \$7 per 100. Mixed Dahlias, \$4 per 100.
IMPERIAL MORNING GLORIES—Double and single flowers, 6 inches. Seed, \$3, \$10, \$20 and \$40 per pound.
FANCY FLOWER POTS and JARDINIÈRES—Largest assortment in the country. Send for catalogue.

A. BLANC & CO.,
PHILADELPHIA, PA.

THE WM. H. MOON CO. MORRISVILLE, Bucks Co., PA.

Offer the following to the Trade:
DAHLIAS—20,000 finest and best.
CANNAS—10,000 mixed and named sorts.
HONEY-SUCKLES—20,000, Evergreen, Halibana and Golden.
CLEMATIS PANICULATA—10,000, one and two years old.
CALIFORNIA PRIVET—200,000, one and two years old.
FLOWERING SHRUBS—250,000, all sizes and varieties.
DECIDUOUS TREES—500,000, for streets and lawns.
EVERGREENS—500,000, large, medium and small.
Correspondence solicited in reference to anything needed in the way of nursery stock.

PREPARE ADVS. NOW FOR OUR SPECIAL SPRING NUMBER.

300 Acres in Nursery. 1 Acre of Glass.

Specialties for Florists.

Per 100
Cardenias, 8, 12 and 18 inches, \$8.00, \$10.00 & \$12.00
Crevillea, 12, 18, 24 and 36 in., \$6.00, \$8.00, \$10.00 & 15.00
Eugenia Jambos, fruit bearing, 18-24 inches, 12.00
Camphor, 12-18 & 26-40 inches, \$8.00 & 25.00
Guava Red Cattley, bearing size, 18-24 inches, 12.00
Magnolia Fuscata, 8, 12, 18-24 inches, \$10.00, \$12.00, \$15.00, 25.00
Olea Fragrans, 8, 15, 24 inches, \$8, \$12 & 20.00
Oranges & Lemons, grafted on dwarf stock, blooming size, stocky, 10-12 & 15-18 in., \$25 & 40.00
Otaheite Orange, bushy, 10 & 12-15 in., \$8 & 15.00
Stock of above all pot-grown, ready now to ship, and in best possible condition.
Fruit and Ornamental Trees, Rare Conifers, etc. Send for Trade List and Descriptive Catalogue.

P. J. BERCKMANS.

Fruitland Nurseries, AUGUSTA, GA.

Ismene Calantha,

OR WHITE AMARYLLIS.

EXTRA SELECT BULBS.
Very profitable for forcing
or outdoor blooming.

\$2 per dozen; \$15 per 100; \$125 per 1000.

Also SAGOS, with from 6 to 36 leaves. Will exchange for Tuberous Begonias, Gloxinias and double white Primulas.

L. HEINL, Terre Haute, Ind.

FUCHSIAS.

... Choice Mixed.

GOOD ROOTED CUTTINGS,
\$1.00 per 100,

By Mail Prepaid.

S. O. STREBY,

Lock Box 77,

UPPER SANDUSKY, OHIO.

CARNATIONS—Rooted Cuttings Wm. Scott, \$15.00 per 1000; Daybreak \$12.00; McGowan \$12.00, Nellie Lewis \$10.00.
VERBENAS—Assorted colors, 80c a 100; \$7.50 a 1000
AZALEAS—Fine plants, \$5.00 to \$8.00 per dozen.
HYDRANGEA Olaks—Strong, \$1.25 to \$3.00 per doz.
HYDRANGEA P. G.—First-class, 3 year, \$7 per 100.
ANEMONE Whirlwind—Strong field grown, \$6 a 100.
Write for our catalogue.

VICK & HILL CO., Rochester, N. Y.

ROOTED ROSE CUTTINGS

From choice flowering wood, free of disease and well rooted.

American Beauty.....	2½ cts
Brides.....	1½ cts
Bridesmaids.....	1½ cts
Meteors.....	1½ cts

Young Rose Plants.

In 2½-inch pots, ready about March 1st.

American Beauty.....	\$5.00 per 100
Mrs. Pierpont Morgan.....	6.00 "
Mrs. W. C. Whitney.....	6.00 "
Belle Siebrecht.....	4.00 "

ROOTED MUM CUTTINGS

Of the following varieties, 1½ cts.

The Queen.	Yellow Queen,
Niveus,	Dailledouze,
Ivory,	Lincoln,
Domination,	Whilldin,
Mutual Friend,	Bonnaillon,
Mrs. Jerome Jones,	Minerva.

Our New 'Mum KATE B. WASHBURN, 2-inch pots, 10 cts. Earliest large white.

No order for less than 100 filled at these prices.

Bassett & Washburn,

HINSDALE, ILL.

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SURPLUS STOCK.

Strong, healthy young
ROSE PLANTS:

Beauties, Brides, Bridesmaids,
Meteors, Gontiers, Perles,
Niphetos, Etc.

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Orders booked now for fresh imported stems, fronds and roots cut off; best long-leaved variety. Delivery from March 1st. Cultivated Cycas always on hand, rooted and well established, at low prices.

Lil. Auralum, Spec. Rubrum and Album, Etc.
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Araucaria excelsa, choice cultivated stock at lowest prices.

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Jackmanni, and all large flowering varieties, \$17 per 100

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L. C. BOBBINK, RUTHERFORD, N. J.
Branch of the Horticultural Co., Boskoop, Holland.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

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Roses in 2 1-2 inch pots.

	Per 100	Per 1000
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KAISERIN VICTORIA.....	4.00	35.00
GOLDEN GATE.....	6.00	50.00
BELLE SIEBRECHT.....	6.00	50.00
BRIDESMAID.....	3.00	25.00
BRIDES.....	3.00	25.00
PERLES.....	4.00	35.00
METEORS.....	3.00	25.00

Orders for less than 50 of any one variety not accepted. READY FOR SHIPMENT MARCH 1st.

Send orders to **51 Wabash Ave., CHICAGO, ILL.**

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	Per 100	Per 1000
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ALBERTINI.....	1.25	10.00
STORM KING.....	3.00	25.00
LIZZIE GILBERT.....	3.00	25.00
TIDAL WAVE.....	1.00	8.00
DAYBREAK.....	1.00	8.00
PORTIA.....	1.00	8.00
NANCY HANKS.....	1.00	8.00
LIZZIE MCGOWAN.....	1.00	8.00
UNCLE JOHN.....	1.00	8.00
SILVER SPRAY.....	1.00	8.00

Free of rust. Ready for immediate shipment. Orders for less than 100 of any one variety not accepted.

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Good for 7 DAYS ONLY from date of this advertisement.

To make room immediately I offer extra strong, vigorous plants, well established in 3 and 4-inch pots, one year old, on own roots, of

MRS. JOHN LAING, ULRICH BRUNNER, BARONESS ROTHSCHILD, MABEL MORRISON, MERVEILLE DE LYON, MME. G. LUIZET, and a few GEN'L JACQUEMINOT, at \$8 per 100 for 3-inch, and \$10 per 100 for 4-inch, for cash with order.

Parties wishing good strong plants for bedding or forcing purposes should not miss this offer.

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ROSES

BEAUTIES, MERMETS, CUSINS, TESTOUTS, NIPHETOS, PERLES, BRIDES, BRIDESMAIDS, METEOR, HOSTE, LA FRANCE, WOOTTON, WATTEVILLES, AUG. VICTORIA, MORGANS, Rooted Cuttings. Cash with order. Owing to number booked, they will be executed in rotation to assure prompt delivery. Order early.

Address for quotations, **VILLA LORRAINE ROSERIES, MADISON, NEW JERSEY.**

NOW

is a good time to secure a strong healthy stock of the

CELEBRATED NEW ROSE

MRS. PIERPONT MORGAN

which has unmistakably grown in popularity as the season advanced.

Prices for strong plants ready for immediate delivery are as follows:

From 2-inch pots.....	per 1000, \$125.00
" " ".....	per 100 65.00
" " ".....	per 100 15.00
" " ".....	per 50 8.00
" " ".....	per 12 2.25
From 3-inch pots.....	per 100 18.00
" " ".....	per 50 10.00
" " ".....	per 12 2.50

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Station H, Phila. **EDWIN LONSDALE,**
Wyndmoor, Chestnut Hill, Phila.

DON'T WAIT AND GET LEFT,

BUT GET YOUR ORDERS IN.	Per 1000	Per 100
Mme. Salicori Geranium.....	\$12.00	\$1.50
Cuphea platycentra (Cigar Plant).....	8.00	1.00
Feverfew Little Gem.....	10.00	1.50
Salvia splendens.....	10.00	1.25
Alternanthera p. major and annua.....	6.00	.75

The above are grown in flats, and in fine condition. A few thousand Vinca Variegata, 2½-inch pots, \$2.50 per 100

ROOTED CUTTINGS.

Golden Queen, the only all around yellow	
Coleus, and Crimson Verschaffelti.....	\$ 6.00 \$.75
Coleus in variety.....	5.00 .50
Double Petunias.....	12.00 1.50
Fuchsias, named varieties.....	12.00 1.50
Heliotrope.....	8.00 1.00
Double Golden Marguerite.....	12.00 1.50
Ageratum, blue and white.....	8.00 1.00

Selection of sorts to remain with us.
Cash with the order.
J. E. FELTHOUSEN, Florist, Schenectady, N. Y.

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271 Broadway, N. Y. **C. S. LODER, Sec'y.**

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Strong pot-grown stock of the
NEW ROSE

Mrs. Pierpont Morgan.

Other planting stock, cuttings, etc., in variety.

New 16 page illustrated Catalogue free.

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and Growers' Agent.

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When writing mention the American Florist.

ROSES—Dormant.

Field-grown, own roots, one year cut back to 30 to 36 inches, three or more branches. Can be held dormant in cold storage until May 1st.

L'Enfant du Mt. Carmel Joasne Hanet, Madame Planter, Baltimore Belle, in lots of 250 or over, \$30.00 per 1000. Freight paid to St. Louis. Address

W. F. HEIKES, Manager,
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BRIDESMAID ROSE PLANTS,

AND METEORS, ready for shifting from 2½-inch pots can now be had in prime condition, at \$5.00 per 100.

The Sunnywoods Greenhouses have the PARENT STOCK of the Bridesmaid rose. **FRANK L. MOORE,**
CHATHAM, N. J.

NEW BISMARCK APPLES.

1 and 2 years old.

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Inch, \$1.40; Column, \$14.00.
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wares pertaining to those lines ONLY. Please to
remember it.

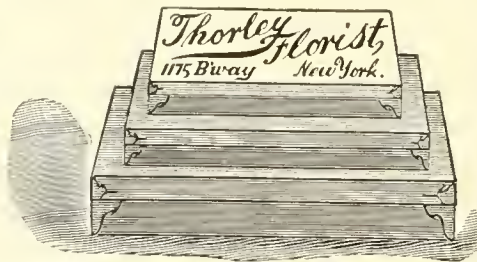
Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure
insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

Catalogues Received.

Ben Hains Co., New Albany, Ind., seeds and plants; Carl Cropp, Erlurt, Germany, seeds; W. J. Godfrey, Exmouth, England, chrysanthemums; The Lovett Co., Little Silver, N. J., peach trees; Geo. Hancock & Son, Grand Haven, Mich, carnations; National Plant Co., Dayton, O., plants and seeds; Wm. Elliott & Sons, New York, seeds; C. B. Strong & Co., Sacramento, Cal., seeds; W. Baylor Harland, Cork, Ireland, seeds and bulbs; H. Wegelin, Shaldon, Teignmouth, England, carnations; Dinger & Conard Co., West Grove, Pa., plants and seeds; Highlands Nursery, Kawana, N. C., nursery stock; John Gardiner & Co., Philadelphia, seeds; Geo. A. Shultz, Jamesburg, N. J., peach trees; J. Lambert & Son, Trier, Germany, seeds; Peter Henderson & Co., New York, seeds and plants; T. H. Spaulding, Orange, N. J., chrysanthemums, cannas, begonias; Jos. Heacock, Wyncote, Pa., new chrysanthemum; W. Atlee Burpee & Co., Philadelphia, seeds; Mrs. M. M. Briggs, El Paso, Texas, cactus; Union Seed Co., Kalamazoo, Mich., vegetable seeds; G. C. Watson, Philadelphia, seeds and bulbs; I. L. Pillsbury, Galesburg, Ill., rooted cuttings; D. B. Long, Buffalo, N. Y., rooted cuttings, plants, bulbs, etc.; J. L. Childs, Floral Park, N. Y., seeds, plants and bulbs; Schlegel & Fottler, Boston, seeds; H. G. Faust & Co., Philadelphia, seeds; W. Kliem, Gotha, Germany, seeds and plants; W. W. Rawson & Co., Boston, seeds, bulbs and implements; Hilfinger Bros., Fort Edward, N. Y., flower pots; Jos. Breck & Sons Corp., Boston, seeds; Reasner Bros., Onco, Fla., tropical and sub-tropical plants and trees; J. Chas. McCullough, Cincinnati, O., seeds, plants and bulbs; Jos. Wagner, Beaver Dam, Wis., seeds and plants; W. Atlee Burpee & Co., Philadelphia, live stock; W. H. Spooner, Jamaica Plain, Mass., roses; Reid's Nursery, Sydenham, London, England, seeds and plants; F. W. Kekey, New York, hardy trees and plants; J. M. McCullough's Sons, Cincinnati, O., seeds; D. M. Ferry & Co., Detroit, Mich., seeds; V. Lemoine & Fils, Nancy, France, seeds and plant novelties; J. C. Saffern, Voorhies, Ill.; Wm. G. McTear, Princeton, N. J., chrysanthemums; Vick & Hill, Rochester, N. Y., plants; Natz & Neuner, Louisville, Ky., plants and seeds; Kennicott Bros. Co., Chicago, wire designs and florists' supplies; H. A. Dreer, Philadelphia, seeds and plants; Peter Fisher, Ellis, Mass., carnations; W. A. Manda, So. Orange, N. J., everything for the garden; same, novelties; Phoenix Nursery Co., Bloomington, Ill., nursery stock; Lewis Roesch, Fredonia, N. Y., fruit trees and nursery stock.



The boxes as they appear when set up for use.

We make them in a sufficient number of sizes, including for violets, to meet all necessary requirements.

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Cut Flowers & Florists' Supplies
WIRE DESIGNS.
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A complete line of Wire Designs.

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15 CENTS PER STRING.
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HARDY PINKS HER MAJESTY,
MAY.

Send for description and prices.

CUT FLOWERS, Good supply.
Choice stock.

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... MILWAUKEE, WIS.

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We are prepared to fill orders—received
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to be delivered in Cincinnati and suburbs
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Customary discount to the trade.

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CARNATION and CHRYSANTHEMUM
SPECIALISTS,
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"The National"

Folding Flower Boxes are the best
and most convenient ever put upon
the market. They are made from
board, manufactured especially for
these goods, and made so as to resist
moisture, thereby keeping the flow-
ers fresh, and the box holding its
shape.

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CUT FLOWER CO.,**

119 and 121 W. 23rd St., and
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**IS NOW
OPEN FOR BUSINESS.**

The Largest Dealers in

**CUT FLOWERS
IN THE WORLD.**

Handling flowers of all kinds in quantity
we are in a position to fill shipping orders
promptly. We shall give careful attention
to this branch of the business, and solicit
your patronage.

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FLORISTS**
JOE BERS IN
FLORISTS'
SUPPLIES,
FLORISTS'
VASES.

METS,
BRIDES,
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.

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Cut Strings, 8 to 10 feet long,

50 CENTS.

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WHOLESALE FLORIST
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WHOLESALE CUT FLOWERS.
SEEDS, BULBS AND ALL
FLORISTS' SUPPLIES.

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Wholesale Cut Flowers
 and FLORISTS' SUPPLIES,
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Wholesale Commission Florists
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 Telephone Main 4937, CHICAGO.
 Our Roses best them all in quality.
 Headquarters for fine American Beauties.

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Wire Designs a Specialty.
 59 WABASH AVENUE,
CHICAGO.

ROGERS PARK FLORAL CO.,
Wholesale Growers of
CUT FLOWERS,
 41 WABASH AVENUE,
CHICAGO.

We are prepared to fill your orders with first-class flowers. Give us a trial order.

A. G. Prince & Co.
WHOLESALE
COMMISSION FLORISTS,
 41 Wabash Avenue,
 Telephone Main 3208. CHICAGO.

Shipments solicited. Prompt attention to all orders.

Wholesale Markets.

Cut Flowers.

NEW YORK, Feb. 26.	
Roses, Beauty, extra grades.....	20.00@50.00
" " culls.....	5.00@10.00
" Perle.....	2.00@5.00
" Testouts.....	3.00@12.00
" Cusin, Witteville.....	2.00@6.00
" Bride, Bridesmaid.....	3.00@8.00
" Meteor, Morgan.....	6.00@12.00
" Common mixed stock.....	2.00@4.00
Carnations, ordinary.....	50¢ 1.00
" fancy.....	1.50@3.00
Violets.....	50¢ 1.00
Valley.....	1.00@2.00
Harrill.....	6.00@8.00
Daffodils.....	2.00@3.00
Mignonette.....	2.00@10.00
Roman hyacinths and paper white.....	1.00@2.00
Tulips.....	1.00@2.00
Cypripediums.....	10.00@12.00
Catleyas.....	30.00@40.00
Lilac, per bunch.....	1.00
Adiantum.....	50.00
Asparagus.....	12.00@15.00
Smilax.....	1.00
BOSTON Feb. 26.	
Roses, Guntler, Niphetos.....	3.00@5.00
" Perle, Hoste.....	4.00@8.00
" Bride, Bridesmaid, Mermel.....	6.00@15.00
" Meteor.....	5.00@12.00
" Beauty.....	10.00@50.00
Carnations.....	1.50@2.00
" fancy.....	2.00@3.00
Violets.....	75¢ 1.00
Valley.....	1.00@4.00
Harrill, callas.....	8.00@12.00
Paper white narcissus.....	2.00
Romans.....	1.00@2.00
Freesia.....	1.50
Daffodils double.....	2.00@3.00
Marguerite single.....	1.00@2.00
Mignonette.....	1.00
Cypripediums.....	2.00@12.00
Adiantum.....	1.00
Smilax.....	16.00
Asparagus.....	50.00
PHILADELPHIA, Feb. 26.	
Roses, Beauties.....	8.00@50.00
" Brunners.....	25.00@50.00
" Latus.....	20.00@25.00
" best selected teas.....	8.00@10.00
" seconds and small stock.....	6.00@8.00
" Morgan.....	10.00@12.00
Carnations, general stock.....	1.00@2.00
" selected and choice kinds.....	3.00@4.00
Harrill.....	8.00@12.00
Valley.....	4.00@6.00
Romans and Paper White.....	2.00@3.00
Tulips.....	3.00@4.00
Violets.....	75¢ 1.50
Mignonette.....	2.00@3.00
Freesia.....	1.00@2.00
Smilax.....	15.00@20.00
Asparagus.....	50.00
Maldenhair.....	1.00
CHICAGO Feb. 26.	
Roses, Beauties.....	25.00@40.00
" " seconds.....	6.00@20.00
" Perle, Morgan, Siebrecht.....	2.00@5.00
" Brides, Bridesmaid.....	3.00@6.00
" Meteors.....	3.00@6.00
" Testouts.....	4.00@6.00
Carnations.....	50¢ 1.00
" fancy.....	1.50@2.50
Harrill, callas.....	6.00@10.00
Valley.....	3.00
Violets.....	35¢ 75¢
Roman hyacinths.....	2.00@3.00
Narcissus (paper white).....	3.00
Hyacinths, Dutch.....	4.00@6.00
Narcissus Von Sion.....	4.00
Freesia.....	3.00
Smilax.....	12.50@15.00
Asparagus.....	50.00
ST. LOUIS, Feb. 26.	
Roses, Beauties long.....	30.00@50.00
" select stock.....	6.00@8.00
" general stock.....	4.00@5.00
Carnations fancy.....	2.00@2.50
" ordinary.....	1.00@1.50
Valley.....	2.00@4.00
Harrill.....	6.00@8.00
Callas.....	8.00@10.00
Romans.....	2.00
Daffodils double.....	2.00@3.00
" single.....	1.00
Tulips.....	2.00@3.00
Violets southern single.....	1.00
" home grown.....	1.00
" double.....	1.00
Freessias.....	2.00
Smilax.....	12.00@15.00
BUFFALO, Feb. 26.	
Roses, Beauties.....	20.00@40.00
" Meteors.....	6.00@8.00
" Bridesmaid, Mermets, Bride.....	6.00@8.00
" Cusin, Perle.....	5.00@6.00
Carnations, fancy.....	2.00@3.00
" common.....	1.25@2.00
" short.....	1.00@1.25
Harrill.....	10.00@15.00
Callas.....	8.00@12.00
Romans.....	3.00
Valley.....	4.00
Violets.....	75¢ 1.25
Tulips.....	3.00@3.50
Daffodils.....	3.00@4.00
Smilax.....	15.00@20.00

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 Successors to WM. J. STEWART,
Cut Flowers and Florists' Supplies
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 New England Agent for the GREAT ANTIPEST.

John I. Raynor,
 49 WEST 28th STREET,
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SPECIAL EXTRA STOCK OF
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DISBUDDED CARNATIONS.
FANCY GRADE.

Finest MIGNONETTE in the world.

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Cut Flowers,
WHOLESALE,
 43 W. 28th Street, NEW YORK.

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WHOLESALE
FLORIST,
 32 West 30th Street, NEW YORK.

Roses Shipped to all points. Price list on application.

Edward C. Horan,
 34 W. 29th Street, NEW YORK,
WHOLESALE • FLORIST.

Careful Shipping to all parts of the country.
 Price list on application.

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WHOLESALE DEALERS IN
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FINE ROSES
WHOLESALE,
 51 West 28th St., NEW YORK.

FRANK MILLANG,
CUT FLOWERS,
WHOLESALE, COMMISSION,
 408 E. 34th Street,

Cut Flower Exchange, NEW YORK.

THEO. ROEHR,
WHOLESALE
FLORIST
 111 WEST 30TH STREET,
 Established 1879. NEW YORK CITY.

JULIUS LANG,
 (Formerly with THEO. ROEHR.)
Commission Dealer in Cut Flowers,
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 53 West 30th St., NEW YORK CITY.

@Re Seed Trade.

AMERICAN SEED TRADE ASSOCIATION.

S. E. BRIGGS, Pres.; T. W. WOOD, 1st Vice-Pres.; ALEX. ROEDERS, 2nd Vice-Pres.; A. L. DON, 114 Chambers St., New York, Sec'y and Treas. The fourteenth annual meeting will be held at Niagara Falls, N. Y., June 9 to 11, 1896.

"Warranted" Seeds Again.

EDITOR AMERICAN FLORIST: With reference to the correspondence appearing in your paper about "Warranted Seeds" it occurred to us to obtain an outside and legal view of the subject. With the opinion so obtained we fully concur and we beg now to submit it to you.

Anyone selling his seed "warranted" in large letters, and his reservations or modifications of his warranty in small letters, or hidden away in a multitude of words, will find that some day a purchaser who saw the "warranted" and did not see the limitation will receive a large amount of damages "should a mistake occur in selling seeds."

It is but fair, and so far as we know it is the usual custom of seedsmen in the event that seeds sold by them do not germinate or the product is not as it ought to be, to give new seed or refund the price, upon the principle that if the seed sold was good for nothing they ought to receive nothing for it. But it is absurd to call this custom a *warranty*. It is simply an agreement to refund the money if the goods sold are not what they purport to be.

The damage upon a breach of warranty on the sale of seeds is the difference in the net value of the crop raised and the net value of the crop which would have been raised had the seed been what it purported to be.

Trumpeting "warranted" to induce people to purchase, with a limitation absolutely destroying the effect of such a warranty, would be held by court and jury to be misleading and a fraud upon purchasers.

It is much better for all seedsmen to state fairly and clearly the conditions upon which they sell their goods similar to the clause printed in the catalogue of J. M. Thorburn & Co., and upon all packages containing seeds sold by them.

This custom thus becoming universal among seedsmen will avail them against fraud on the part of purchasers, and purchasers cannot complain when they know or ought to know, and have the means of knowing the reasonable conditions upon which seedsmen deal with purchasers.

J. M. THORBURN & CO.

"Seed Control."

Before the Mass. Horticultural Society Saturday, February 8, Gilbert H. Hicks, of the Department of Agriculture of Washington, delivered a lecture on "Seed Control; its Aims, Methods and Benefits." The lecturer first spoke of the importance to the farmer of good seed; that is, seed pure from dirt or weed seeds, etc., true to name, and of good vitality, and gave some of the results of tests of seed. The lowest vitality and purity is found, as a rule, among grass seeds, and the detection of impurities in this class of seeds is the most difficult not only by the purchaser but also by the dealers. As the result of some germination tests made by American experiment stations on twenty-one kinds of grasses, the percentage which vegetated varied from two to twelve, and of eight other kinds not a single seed sprouted.

Perhaps flower seeds are inferior in respect to germinating averages even to

grass seeds. Owing to the methods of culture as well as to their size, vegetable seeds are usually much cleaner than those of grasses and other forage plants. There is a good deal of fraud practised by mixing small gravel and sand with vegetable seeds to increase their weight.

After giving further evidence of the large quantity of poor seed sold, the lecturer said, the important question is, what are we going to do about it? Shall we continue to believe that the evils will regulate themselves in the ordinary course of competition, as the seedsmen would have his customers think? Experience with commercial fertilizers and adulterated food products ought to be sufficient to satisfy the most sanguine farmer or gardener that competition among seedsmen is not going to insure him good seed.

More than a quarter of a century ago these same questions were forced upon the attention of European agriculturists by the results of some tests of commercial seed made by Dr. Nobbe, director of the Experiment Station at Tharand, Saxony. Seed control methods were introduced, and as the result there has been a great improvement in the stock offered for sale. Poor seed is on the European market, but no man there need buy it unless he wants to. At the present time there are over 100 seed control stations in Europe, not a single important country being without one or more. Germany heads the list with 38, Sweden has 16, Austria 14, Belgium 9, Russia 7, and France, England and Scotland one each. Even Japan, Brazil and Java have one or more, the total number outside of the United States being in 1894, 117. In some cases this work is conducted in connection with a regular agricultural experiment station; in many instances seed testing alone is carried on. So far as the lecturer knew there are no laws in Europe compelling seedsmen to furnish good wares; the result is reached through the pressure of public sentiment due to the effect of control stations.

Frequently the work is undertaken in connection with agricultural societies, all of whose members share in the benefits. For example, every agriculturist in the jurisdiction of the Dresden Agricultural Society is authorized to send in to the Experiment Station at Tharand, Saxony, samples of seed bought by him, together with a statement of their origin and cost.

The sample must be taken and sealed before a witness, and must be a fair average of the seed purchased, so that the dealer cannot dispute the result of the test. Of the smaller seeds, as radish, rape, clover, grasses, etc., at least half an ounce must be sent in, and in the case of larger seeds, such as peas, beans, cereals, maize, etc., from a quarter to a half a pound. The results of the test are published in the official journal of the station, which also publishes equitable standards of purity and germination, so that the people may know whether the guarantee of seeds offered to them is of a sufficiently high per cent.

Seed producers or dealers can have the purity and germinative ability of their seeds examined for one or two dollars, according to the size of the seed. Special arrangements are made with parties not members of the Dresden Agricultural Society.

The prices for seed testing vary according to the labor required and the country in which the test is made. A few of the stations are self-supporting, but most of them receive grants from the state to aid in carrying on the work. In many cases so-called "control firms" are regular

patrons of the stations, paying a certain annual amount for having tests made.

To their customers they furnish a guarantee for genuineness, purity and germinating capacity, based upon, but not necessarily equal to, the test made by the station for them—the "preliminary test," as it is called.

Immediately upon receipt of the seed the customer can send a sample to the control station if desired, and have it tested at a reduction of from one-third to two-thirds from the prices charged the dealer, or, in some cases without expense. This is called the "supplementary test."

The firm binds itself in case its seed falls five per cent or more below the germination per cent guaranteed, either to refund the money pro rata or to replace the goods, paying transportation both ways.

In supplementary tests made for members of the East Prussian Agricultural Society, if more than two per cent of foreign matter occurs above the guarantee, or ten dodder seeds per kilogram (about four and a half seeds per pound), the dealer agrees to take back the goods, paying charges both ways, or, at the option of the buyer, to refund from five to ten per cent of the cost for every five to ten seeds of dodder per pound.

Free Seed Distribution by Agricultural Newspapers.

This evil, a more crying one than ever was that of the government seed shop, is still indulged in by several so-called agricultural papers; and the seeds they send out are not novelties, but the regular kinds sold by all seedsmen. Can therefore the bold adv. "SEEDS FREE" used by such publications in their advertisements fail to injure the regular business of the seedsmen? Why should a seedsmen pay full price for advertising to a publication which gives away free seeds to its subscribers? Here is a sample:

SEEDS FREE

ONE CENT for a postal card is all it will cost you to learn how to get 15 packets of Rare, Selected and Tested varieties of seeds from 30 choice novelties, and a year's subscription to the —.

VISITED NEW YORK.—J. C. Robinson, Waterloo, Neb.

DECOU & Co., of St. Paul, are reported to have assigned.

THE catalogue mail trade suffered badly, probably from the cold weather, February 18 to 26.

BOSTON—Thos. J. Grey & Co. succeeded the late firm of Gilbride and Grey at 49 South Market street.

.....

SEEDS ... FOR THE ...

Garden and Farm

● Vegetable and Flower Seeds. All the newest and best varieties—quality unsurpassed, Illustrated Catalogue FREE.

● WEEBER & DON, Seed Merchants and Growers, 114 Chambers St., New York City.

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TELEGRAPH CODE

OF THE AM. SEED TRADE ASSOCIATION

\$2.00,

In either stiff or flexible cover.

ADDRESS ORDERS TO

AMERICAN FLORIST CO., P. O. Drawer 164. CHICAGO.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

WE HANDLE ONLY

Seeds

that are especially grown for a critical Market Garden and Florists' trade. There are tons of seeds grown to sell cheap. You don't want them if your living or your satisfaction in life depends on the result. In our

GARDEN AND FARM ANNUAL FOR 1896

you will notice the illustrations are from direct photographs. They stand for Truth and Honesty and Honest Seeds back them up at Honest Prices. It is full of meat, written for business and to business buyers it is sent free. We also issue a Wholesale Quarterly for Market Gardeners and Florists.

JOHNSON & STOKES, 217 & 219 Market Street,
PHILADELPHIA.



WE ARE FIGHTING

COMPETITION, AND IT IS YOUR GAIN TO ORDER
NOW THE FOLLOWING WHILE IT LASTS:

ASTERS	Victoria, separate colors.....	Trade Pkt. \$	Oz. \$
"	Victoria mixed.....	.50	2.00
"	Branching white.....	.25	2.00
"	Branching white & rose mixed	.25	2.00
"	Comet, mixed.....	.25	2.00
"	Queen's Market, white or mxd.	.15	.50
"	Truffaut's Perfection, sep. col.	.25	2.00
"	Truffaut's mixed.....	.25	1.25

Wm. Elliott & Sons, New York.

ASTER SEED.

SEMPLE'S STRAIN of Asters, the best and only strain for florists to make money out of the cut flowers. Large flowers like chrysanthemums, long stems and exquisite colors, excellent for growing inside in summer. Flowers bringing from \$1.50 to \$3.00 per dozen. Read the following from Randolph & McClements:

PITTSBURG, January 14th, 1896.
MR. SEMPLE, Bellevue, Pa.—"The Aster Seed purchased from you produced the finest flowers I ever saw. Under glass in summer they will make the best summer flower we can get, producing flowers 4 to 5 inches in diameter." Yours truly,
R. RANDOLPH & McCLEMENTS.
Mixed Seed, three kinds, Pink, White and Lavender. Separate colors all sold.
Seed all grown in 1895.

JAMES SEMPLE, Box 2, BELLEVUE, Allegheny Co., PA.

NORTHRUP, BRASLAN, GOODWIN CO.

Being **GROWERS** we are in a position to supply **Seeds of First-Class Quality** and to make **specialty low prices**. A trial will convince those who have not yet found this out.

NORTHRUP, BRASLAN, GOODWIN CO.

20 to 28 Hennepin Ave., MINNEAPOLIS, MINN.

55, 57 & 59 N. Jefferson St., CHICAGO.

The **BEST SEEDS**
that **GROW** are
from **Philadelphia**—

BURPEE'S

A handsome New BOOK of 184 pages (price 10 cents) mailed FREE to planters who intend to purchase.

WE ARE HEADQUARTERS ON
BULBS FOR FORCING,
FLOWER SEEDS FOR FLORISTS
ENGLISH MUSHROOM SPAWN.

Special prices on application.

JOHN GARDINER & CO., Seedsmen,
631 Market St., Philadelphia, Pa.

PLEASE mention the AMERICAN FLORIST
every time you write to an advertiser.

Try **VAN ZONNEVELD BROS. & CO.'S**
SASSENHEIM, HOLLAND,
Hyacinths, Tulips, Crocus, Daffodils, and
other bulbs.

They are strictly first-class and cheap. Special quotations for wholesale importers.
Address all correspondence until May 1st to

W. VAN ZONNEVELD,
care J. W. Hampton, Jr. & Co., 41 Broadway New York.

EXTRA CHOICE FLOWER SEEDS.
List free on application.

FRED. ROEMER, SEED GROWER,
QUEDLINBURG, GERMANY.



Centaurea Margaret.

A VERY handsome plant which grows about 18 inches high, and produces large pure white flowers (our illustration represents one in natural size), of the sweetest fragrance. Being produced on long, stiff stems, the flowers are most admirably adapted for bouquets, vases etc., especially since they keep in good condition for a week after being cut. It is as easily grown as a Bachelor's Button. Pkt. (200 seeds) 25 cts; 1/2 oz., \$1.00.

FLORISTS' FLOWER SEEDS.

All the latest novelties and standard varieties described and priced in Vaughan's Book for Florists, sent free to Florists.

VAUGHAN'S SEED STORE,

NEW YORK:

26 Barclay St.

CHICAGO:

P. O. Box 688.

Choicest Florists' Seeds

And a full line of **Spring Bulbs**, offered in our New 1896 Trade List, free on application.

Florists' Supplies

In largest assortment and best quality.
Illustrated Wholesale List free.

August Rölker & Sons

136-138 W. 24th St., New York.

Mammoth Verbenas.

New, large-flowered, very fine quality.
Per Ounce, \$1.50.

CHOICE FLOWER SEEDS For Florists.

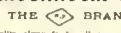
Price List free on application.

HERRMANN'S SEED STORE,

413 E. 34TH STREET,

Near Long Island Ferry, NEW YORK.

WATSON'S ENGLISH MUSHROOM SPAWN

THE  BRAND.
Unsurpassed in quality, always fresh, well spawned and reliable. Can be thoroughly relied on to produce a fine crop of the best Mushrooms. My choice are the largest and finest to the country and I sell at very low prices. Please for first quality spawn, guaranteed the best to the world. I will deliver to you in any quantity. A trial order selected. Note my low prices. per pound, in small packets 10c. 1/2 lb. 15c. 1 lb. 25c. 2 lb. 45c. 5 lb. 85c. 10 lb. 1.50. 20 lb. 2.50. 40 lb. 4.50. Special prices for larger quantities. My agents: London—Messrs. C. C. Watson, 43 North 10th Street, Phila., Pa.

PANSY SEED.

THE JENNINGS STRAIN OF FINEST
AMERICAN CROWN PANSIES,
In pkt. of 2500 seeds \$1.00, very finest mixed, all colors.
Large flowering plants all sold.

E. B. JENNINGS, Pansy Grower
Lock Box 254, Southport, Conn.

Morristown, N. J.

Trade in this vicinity has been very good throughout the season, especially during the holidays, when the town was completely cleared of flowers, anything with color selling readily and at good prices. Plant trade was also very good, especially in cyclamens and primroses.

Mrs. E. A. Holton continues the business of her late husband, Thos. T. Holton, whose death was announced in this paper in September last, and has recently had the store and office repainted and decorated in pale blue and gold, which with the plant decoration in the windows makes a very effective show. This lady has secured the order for the church decoration for a large wedding on the 29th inst., the occasion being the marriage of Miss Evans of this town to Mr. Walter S. Cramp of Philadelphia. Mrs. Holton is cutting some extra fine Brides and Bridesmaids, and quantities of violets.

Mrs. Thos. Mitchell has rented her store and greenhouses to Mr. John Grunewald, who reports very fair trade. He has also started mushroom growing, and is very well satisfied with his first crop, which found a ready market here. A. W. H.

Grand Rapids, Mich.

The Florists' Club met February 18, and adopted the premium list prepared by the committee; \$500 are offered in premiums and some changes made, notably collections, single stem plants in separate colors; a limited space for tropical collection and special premiums on collection plants in bloom other than 'mums. Liberal premiums are also offered on amateur specimens and collections, the committee thinking to thereby awaken interest among more of our citizens.

Six of our florists recently visited the establishment of Geo. Hancock & Son at Grand Haven to inspect the new carnation Ivory just set out by this firm. It was seen in fine condition, and appears to be an excellent commercial white. Their cutting bench is a sight, not a single failure in any variety out of perhaps 100,000 cuttings. They mix soft coal screenings with sharp white sand, about equal parts. Scott is seen here in all its glory, and their seedling plants display almost every color of the rainbow except blue; seven distinct yellows were noticed. CREELMAN.

IRON MOUNTAIN, MICH.—Plowman & Armstrong started in business at 603 Flesheim street last November with one three-quarter span house, short-span-to-the-south, using hot water system for heating. They will build two more houses next season. Trade is very good. Not much call for bulb stock. Mercury went to 22° below zero on the 18th, with no bad results.

Special Offer of Over Stock

	Per 100
Barberry, common, 2 ft.	42.00
purple-leaved, 2 ft.	2.00
Buckthorn, 2 to 3 ft.	3.00
Cornus sanguinea, 3 ft.	6.00
Forythia suspensa, 3 ft.	5.00
Hydrangea paniculata grandiflora, 2 ft.	6.00
Japan Pear, mixed, 2 to 3 ft.	6.00
Poplar Van Gertel and other sorts, 5 to 6 feet	4.70
Privet, Californian, 3 feet	3.00
" 2 ft.	2.00
Symphoricarpos vulgaris, 2 ft.	5.00
Rosa laeda, 2 to 3 ft.	6.00
Spiraea Van Houttei, 2 ft.	6.00
Viburnum Opulus, High bush Cranberry, 2 to 3 ft.	6.00
Willow in great variety, 6 to 7 ft.	5.00
Hemerocallis fulva, single,	3.00
" double,	3.00
" flava,	3.00
Asclepias tuberosa, blooming plants,	2.00
Spiraea Japonica, fine plants,	3.50
And many other equally salable shrubs, cheap for cash. Priced Catalogue free.	
Shipping begins April 1st.	

B. M. WATSON,
Old Colony Nurseries, PLYMOUTH, MASS.

Our Illustrated Descriptive Catalogue and Our Wholesale Trade List for 1896

— OF —

Carnations, Chrysanthemums and Cannas

is now ready, and will be mailed to every florist who sends us his **name** and **address**.

THE COTTAGE GARDENS,
QUEENS, L. I., N. Y.

C. W. WARD, Manager.

CARNATIONS

	Per 100	Per 1000
ROSE QUEEN, ALASKA, MINNIE COOK, }	\$5.00	\$40.00
WM. SCOTT, HELEN KELLER, THE STUART, DAYBREAK, }	2.50	20.00
THOS. CARTLEDGE, LIZZIE MCGOWAN, TIDAL WAVE, PORTIA, }	2.00	15.00

FROM FLATS.

EQUAL TO

POT GROWN.



VAUGHAN'S SEED STORE, 84 & 86 RANDOLPH STREET, CHICAGO.

Carnation Cuttings CHEAP.

Having sold my property, dwellings, greenhouses, etc., which are to be torn down for railroad purposes, I offer, and *must sell*, at a sacrifice, the following: 75,000 Cuttings consisting mostly of **Wm. Scott**, Lizzie McGowan; also a few thousand Daybreak, Portia and Anna Webb. All sorts at \$7.00 per 1000. Fine, elegant stock, well-rooted. Any amount Scotts unrooted, by mail cheap. All other stock in general.

Rare Chance, for cash. Order at once.

J. MARC, Woodside, L. I., N. Y.

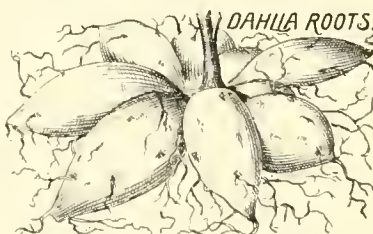
WATER LILIES.

We have added Aquatics to our line of specialties and carry a full line of stock suitable for all purposes VICTORIA REGIA (new type, unsurpassed); NYMPHÆAS, hardy and tender, all colors; NELUMBIUMS in variety. Seeds, tubers and plants. This department is under the management of the well-known specialist, William Tricker, who has merged his stock into ours.

Dreer's quarterly trade list just issued, describes everything, mailed to all the trade.

HENRY A. DREER, 714 Chestnut Street, Philadelphia, Pa.

DAHLIA ROOTS.



Named varieties such as *Nymphaea*, *Camelliflora*, *Donald Beaton*, *Emperor*, *Golden Bedder*, *Golden Queen*, *Golden Pearl*, *Guiding Star*, *Little Fred*, *Little Ryleman*, *Madge Wildfire*, *Miss Dodd*, *Mrs. Daniels*, *Snowball*, *Viola*, *White Dove* and a hundred or more equally good ones.

Strong roots, in perfect condition, unexcelled for stock, \$8.00 per 100.

THE LOVETT CO., Little Silver, N. J.

WRITE TO

R. & J. Farquhar & Co.
SEEDSMEN.

16 & 19 S. Market St., BOSTON, MASS.

If you want THE VERY BEST.

SEEDS, Bulbs, Neponset Paper Pots, Home-made Mushroom Spawn, etc.

CATALOGUE FREE.

ROOTED CUTTINGS—Good Ones.

Verbenas, 24 varieties.	80 cts per 100; \$7.00 per 1000
Fuchsias, 12 "	20 cts per doz.
Heliotrope, 7 "	20 cts "
New Giant Alyssum.	20 cts "
Cypripedium or Cigar Plant.	20 cts "
Salvias and Marguerites.	20 cts "
Mexican Primroses and Ageratum.	20 cts "
Colons, 12 cts; Chrysanthemums.	20 cts "
Roses, 25 cts. Postage, 1 cent a dozen.	Cash.

I. L. PILLSBURY, GALESBURG, ILL.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns

GENERAL COLLECTION OF PLANTS.

	Per 100
Artemisia, silvery foliage.....	\$3 00
Achyranthes, four kinds.....	3 00
Ageratum, White Cap, white.....	3 00
" John Douglas, blue.....	3 00
Cuphea, 3 kinds, the best.....	3 00
Canna, Fancy French.....	5 00
" Common.....	3 00
Coleus, all kinds.....	\$25.00 per 1000 3 00
Calla.....	\$4 00, \$6.00, 20 00
Cactus, in variety.....	8 00
Century Plants, line specimens, \$15 to 25 00	
Cyperus alternifolius.....	5 00
Croton.....	\$5 to 10 00
Cyclamen, 3 and 4 inch pots.....	10 00
Dracæna indivisa.....	3-in. \$15; 4-in. 20 00
Dahlias.....	\$3.50 and 4 00
Epiphyllum, Lobster Cactus.....	8 00
Eulalia zebrina, Zebra Grass.....	8 00
Euphorbia splendens.....	10 00
Ficus australis, Rubber Tree.....	10 00
Fuchsias, general collection.....	\$3 to 4 00
Gladiolus.....	2 00
Geraniums, all kinds.....	\$3 to 4 00
Hibiscus.....	3-in. \$4; 4-in. 5 00
Heliotrope, 2-inch pot plants.....	3 00
Hydrangea, 3 and 4-inch.....	\$6 to 10 00

	Per 100
Helianthus.....	\$5 00
Ivy, all kinds.....	\$3 to 10 00
Jasminum, 3 kinds.....	8 00
Lantana, line, best varieties.....	4 00
Lemon Verbena.....	4 00
Lobelia.....	3 00
Moon-Flower.....	\$25 per 1000 3 00
Manettia, 2 and 3-inch pots.....	4 00
Nierembergia gracilis.....	\$3 to 5 00
Pandanus utilis, 2-inch pots.....	8 00
Pelargoniums.....	8 00
Petunia, double and single.....	5 00
Poinsettia, 5-inch pots, 20c each.....	15 00
Pansy, every variety.....	2 50
Pæonia, assorted.....	\$5 to 15 00
Primroses, 3-inch pots.....	\$3 to 6 00
Polyanthus, 2 and 3 inch.....	\$5 to 6 00

	Per 100
Roses, Monthly and Tea.....	\$3 to \$4 00
" Hybrid Perpetual.....	\$3 to 4 00
Vincas.....	\$6 to 10 00
Verhenas, every variety.....	2 50
Chrysanthemums, 25 varieties.....	\$3 to 5 00
Carnations.....	\$3 to 6 00
Begonias, best assortment.....	\$3 to 8 00
Ferns. We grow Ferns for the mar-	
ket, and have several houses devoted	
to their growth.....	\$6 to 10 00
Palms and Decorative Plants. Our Palms	
are in fine condition, and we make better	
inducements than ever before.	

Send for Our Complete Catalogue

TREE AND PLANT LABELS. MAILING BOXES.
WILLIAMS & SONS CO.,
BATAVIA, Kane Co., ILL.



New Single Violet Luxonne.

This variety is of French origin and was introduced into this country some four years ago by Mr. Francois Supiot, the Violet expert of Philadelphia, otherwise known as the "Violet King." It has, as Mr. Supiot claims, become thoroughly acclimated, and is without doubt, the most profitable single Violet grown. It is of the same size as the California, but appears nearly double its size, as all the petals open out flat, and has the advantage of flowering continuously from early in September until April, and does not come in crops like the California. It is of a beautiful rich, but soft violet purple color, with strong stout stems from 9 to 12 inches long, and very fragrant.

Shown in competition with well grown flowers of the California at the New York Flower Show last fall, it was awarded the *First Prize*.

We can fully endorse Mr. Supiot's description of the above and also his claims that it supersedes all other varieties now on the market. **\$2.00 per dozen; \$15.00 per 100.**

New Red Violet, Admiral Avellan.

Another French variety with distinct reddish purple flowers, entirely distinct from anything yet introduced. **\$2.50 per dozen; \$20.00 per 100.**

We have been appointed **SOLE AGENTS** by Mr. Supiot for the distribution of his stock, and are now booking orders for delivery **EARLY IN MARCH** for well established plants from 2 1-4 inch pots.

HENRY A. DREER, No. 714 Chestnut Street, Philadelphia, Pa.

Surplus Stock Evergreens.

	Per 100
European Silver Fir.....	2 to 3 ft. \$8 00
Balsam Fir.....	3 to 4 ft. 8 00
Black Spruce (Abies nigra) 3 to 4 ft. 10 00	
White Pine.....	3 to 4 ft. 8 00
Pitch Pine.....	3 to 4 ft. 8 00
Austrian Pine.....	2 to 3 ft. 15 00
Pinus excelsa.....	1½ to 2 ft. 15 00
Red Cedar.....	4 to 5 ft. 15 00

All nursery grown and several times transplanted. Shipping begins April 1st. Catalogue free. Good stock cheap for cash.

B. M. WATSON,
PLYMOUTH, MASS.
 Mention American Florist.

Rooted Cuttings.

Ceraniums—Double and single, best bedders, largely semi-double scarlets, all labelled, \$12 per 1000, \$1.60 per 100.

Coleus—Red and yellow, also twenty sorts of the finest fancy-leaved, at \$6.00 per 1000, or 75c per 100.

REPLANTED STOCK, in fine condition for potting;

Ageratum—Cope's Pet, blue, 60c per 100; by mail 75c.

Fuchsias—Best singles, 18c per dozen; by mail, 25c.

Heliotrope—Fine sorts, 18c per dozen; by mail, 25c.

Pansies—Herr's straly, none better, 88.00 per 1000, or \$1.00 per 100; by mail, \$1.20 per 100.

Verbena Seedlings—Our own extra select, fine pleasing colors, \$3.00 per 1000, or 30c per 100.

Stock grown by Daniel K. Herr. Address communications to

ALBERT M. HERR,
LANCASTER, PA.



BLOOMERS FOR FLORISTS.

— **THINK OF IT** —

CUSHMAN'S GLADIOLUS BULBS,
 a sure fit at popular prices.

CUSHMAN GLADIOLUS CO., Euclid, O.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, \$1.00 per 100; \$8.00 per 1000.

NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.

We are the Largest Growers of Verbenas in the country.

Our plants cannot be surpassed.

J. L. DILLON, Bloomsburg, Pa.

The Oaks Greenhouse Co., Jackson, Mich.

	Per 100
Primula Jap., nice 2½-inch pot plants.....	\$2.50 \$
Rooted Cuttings Carnations, 3 varieties.....	1.00
Begonia Metallica, 3½.....	5.00
Rooted cuttings Chrysanthemums, standard	
varieties.....	1.00 9.00
R. C. Marguerite Daisy, white and yellow.....	1.00 9.00
R. C. Vinca variegata.....	1.00 9.00
R. C. Caruations, Daybreak, McGowan, Por-	
tila, etc.....	1.25 10.00
R. C., a quantity of La France Roses.....	1.50 12.00
If to be sent by mail add 10c per 100. Cash with order.	

Always mention the American Florist when writing to advertisers.

Association Flora, BOSKOOP, HOLLAND.

CLEMATIS, Large-flowering sorts, \$15.00 per 100.

Rhododendrons in sorts, **Pæonia**, **Bleeding Heart**, **Spirea japonica**, **Azalea**, **Magnolia**, **Lilacs** and **Shrubs**.

H. P. ROSES in sorts.

P. OUWERKERK, 1123 Summit Ave.,

Catalogue on Application. **JERSEY CITY, N. J.**

Nashville, Tenn.

Currey & Co. succeeds G. W. Currey & Co., Mr. G. R. Currey retiring.

Currey & Co. have rebuilt three houses each 20x75 and are now building four houses each 20x100.

The Mount Olivet cemetery has built a rose house 20x120.

Trade has been very much depressed for a year and more, roses and violets holding their own best.

This is Centennial year in Tennessee and is to be celebrated with a grand exposition, opening September 1st and closing December 31. A grand feature is to be the floral display, and special efforts are being made to have a chrysanthemum show that will equal if not excel anything of the sort ever held in this country. A great many of our most prominent northern florists have promised to be on hand as the premium list is to be a most tempting one.

An interesting case was decided here in Supreme Court on January 10. G. W. Currey and Hugh Seals entered into contract April 1, 1895 for three years. Seals to receive \$100 per month as foreman at their greenhouse plant. Seals quit work November 1, 1895, the firm being indebted to him \$233, which they declined to pay on account of breach of contract. Seals sues in magistrates court and gets judgment. The matter being appealed to next higher court is decided in favor of G. W. Currey & Co. Seals appealed to Supreme Court which sustained the decision of the Circuit Court and decided also in favor of Currey & Co.

Joy & Son are now bringing in fine carnations and violets.

Currey & Co. are cutting magnificent roses, particularly Beauties and Bridesmaids, and their Perles are the best ever seen in this market. R. B. C.

Shamokin, Pa.

Shamokin is to have a first-class flower store. Geo. W. Parmley, the florist, has secured a good location at the corner of Independence and Orange streets, in the center of the city. The building is under way and will be two stories high with a good cellar. The first floor will have a frontage of fifty feet with four large plate glass windows and two entrances, and all in one room. The second floor will be of the same size also in one room and well lighted and ventilated with large windows and sky lights, for the display of specimen plants; with hot water for heat and electricity for light. Mr. Parmley expects to make "ends meet" and lap over by watching the markets for anything of merit that will help to make up a good stock and good profits.

The store will be conducted in connection with the present greenhouses which are only two squares distant, and will be used more for stock than for growing. The store will be opened time for spring sales, and it is hoped that deserved success will attend the effort.

FOR SALE.

Daybreak, Helen Keller, Lady Emma, Thos. Cartledge, Mrs. Fisher, Tidal Wave CARNATIONS out of flats.

Meteor and Perle ROSES, out of 2-in. pots.

Write for prices to

GEO. A. KUHL, Pekin, Ill.

Please mention the American Florist every time you write any of the advertisers on this page.

HERR'S CARNATIONS.

ROOTED CUTTINGS that will give good results, because they are taken from healthy stock, and will be well rooted when sent out.

VARIETIES—McGowan, Mrs. Fisher, and Alaska, the best of all whites. Daybreak, Scott, Aurora, Sweetbrier, Rose Queen, Peachblow, Dorner, Stuart, Portia, Jubilee, Buttercup, Eldorado, Kitty Clover, Keller, Iago, and Meteor, the best of all dark ones. Thomas Cartledge and Wave; also all the Novelties, including Annie Lonsdale and the hit of the season DELLA FOX.

Don't place your order before writing to me. I have fourteen large houses full of Carnations and think we can make a deal. In asking for prices please state how many you will want of each variety and when they are to be delivered.

L. B. 496.

ALBERT M. HERR, LANCASTER, PA.

Mention American Florist.

Crimson Sport Carnation.

This new carnation originated with us six years ago and has been thoroughly tried before offering it to the trade. Crimson Sport, as its name will imply, is a sport from Unique, which was a sport from Lydia. Crimson Sport has the strong, healthy growth of its parent, very large crimson flowers, free from rust and disease, very prolific, long, stiff stems, perfectly healthy growth, a good shipper, a good keeper and all in all the best crimson carnation now in cultivation. We say this after growing it several years and comparing it with all the recent introductions and old varieties.

Having plenty of stock our cuttings will be taken from perfectly healthy plants that have not been forced or propagated to death, as is often the case.

Call and see it growing or send for carnation circular of this and other varieties.

ROOTED CUTTINGS, \$1.50 per dozen; \$10.00 per 100; \$60.00 per 1000.

J. L. DILLON, Bloomsburg, Pa.

CARNATIONS

Rooted Cuttings.

Perfectly clean and healthy, and will be well rooted when sent out.

Daybreak, Scott, McGowan, Puritan, Silver Spray, Tidal Wave, Portia.

Delivery Feb. 15 and later, \$1 per 100; \$8 per 1000.

Mme. Albertini, Emily Pearson, Helen Keller.

Delivery Feb. 15 & later, \$1.50 per 100; \$10 per 1000.

TERMS CASH WITH ORDER.

MAGNUSON & PEARSON,

Bowmanville, Station X, Chicago.

Rooted CARNATION Cuttings

Wm. Scott, Daybreak, L. McGowan, Thos. Cartledge and Portia, ready now.

10,000 plants of MRS. FISHER, rooted in October and now in beds; the best white for summer blooming, \$15.00 per 1000.

Get my list and prices before ordering.

J. J. STYER, Concordville, Pa.

Eldorado, Kitty Clover

The best YELLOW CARNATIONS to grow for profit. ROOTED CUTTINGS now ready, @ \$5.00 per 100. Also 30,000 strong rooted cuttings of suitable kinds for summer bloom.

LADY CAMPBELL VIOLETS, rooted runners, @ \$1.00 per 100; \$8.00 per 1000.

W. R. SHELMORE, Chester Co., AVONDALE, PA.

DO YOU WANT CARNATIONS?

If so, why not GROW the BEST?

50,000 ROOTED CUTTINGS, including Daybreak, Wm. Scott, Goldfinch, Lizzie Gilbert, Emily Pierson, Lizzie McGowan, Tidal Wave, S. Spray, Hinz's White, &c.

Can do you justice in quality and prices. Write me before you buy. Address CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

CARNATIONS—Rooted Cuttings.

Healthy; no rust. Albertini, Helen Keller, \$1.50 per 100; McGowan, Tidal Wave, \$1.00 per 100; \$10.00 per 1000; Wm. Scott, \$1.25 per 100; \$10.00 per 1000. Cash with order please.

H. L. PHELPS, Springfield, Ill.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

CARNATIONS for 1896

Edward Swayne, Carnationist

Eldorado, 5' 40.
Kobinson, " "
Ophelia, " "
Una, 4' 2' 15
McGowan, 5' 25
Fisher, " "
Sweetbrier, 2' 15
Scott, " "
Cartledge, " "
Daybreak, " "
Portia, 15' 125
Buttercup, " 05
Grange-Blossom, " 25
Acor, " 25
VIOLETS
Perquhar, 8' 40.
Campbell, 1' 10
CHRYSA nthemums
Elderdown
H. W. Riemen P

No Rust
Gentlemen,
We take pleasure in quoting as our column indicates and should like to train your attention particularly to Cardinal Eldorado which we believe is destined to take the lead in place among yellows as it has shown equally well on each side in and in the market bringing double the price of ordinary varieties also Perquhar violet which is making quite a stir in New England and of which we have very bright clear stock.
Yours truly
Edw. Swayne

CARNATIONS

Per 100 Per 1000

OPHELIA.....\$5.00 \$50.00
SWEETBRIER.....2.00 15.00
SCOTT.....2.00 15.00
DAYBREAK.....2.00 15.00
CARLEDGE.....2.00 15.00
PORTIA.....1.50 12.50
MCGOWAN.....1.50 12.50
LAMBORN.....1.50 12.50
PURITAN.....1.50 12.50

NO RUST

VIOLETS. Lady Campbell, splendid, inhausable, \$1 per 100; \$8 per 1000.

MUMS, At \$1.50 per 100. The following: Ivory, Louise, Mrs. J. George Iles, Mrs. Craige Lippincott, Mrs. E. G. Hill, and E. Dailedouze.

We can furnish other standard varieties of carnations if desired, and will fill orders now. Cash with order. Yours truly,

C. S. SWAYNE, Kennett Square, Pa.

Try EDITH FOSTER,

NEW WHITE CARNATION

(Offered for the first time.)

STOCK LIMITED.

Has been TESTED THREE YEARS. Is early and productive. Flowers medium to large, of good form and substance, very fragrant, stems long, habit of plant, ideal.

COME AND SEE IT.

Watch for it at the American Carnation Society's Exhibit at New York in February.

Send for descriptive price list of NEW AND TESTED CARNATIONS.

PETER FISHER, Ellis, Norfolk Co., Mass.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns

Garnation Orders

BOOKED NOW.

Good, clean, well-rooted stock. NO RUST.

	Per 100	Per 1000
BRIDESMAID.....	\$5.00	\$40.00
METEOR.....	5.00	40.00
STORM KING.....	5.00	40.00
UNCLE JOHN.....	3.00	25.00
STUART.....	3.00	25.00
E. A. WOOD.....	3.00	25.00
GOLDEN LIPS.....	4.00	35.00
WM. SCOTT.....	2.50	20.00
DIAM. ALBERTINI.....	3.00	25.00
DAYBREAK.....	3.00	25.00

CHRYSANthemums.

	Each	Doz.	100
Mrs. W. C. Egan, new (ready March 1).....	.50	\$5.00	\$35.00
Tippecanoe, new (ready March 1).....	.50	5.00	35.00
Amaranth, new (ready March 1).....	.50	5.00	35.00
Mr. E. M. Bickelov.....	1.00	8.00	
Mrs. S. T. Murdock.....	1.00	8.00	
Oakland.....	1.00	8.00	
Major Bonnaton and other choice older standard sorts.....	.75	5.00	

Send for descriptive trade list.

F. DORNER & SON,

LA FAYETTE, IND.

The Crack Carnations:



SCOTT, ALBERTINI,
DAYBREAK, McGOWAN.

Selected Cuttings, well rooted in sand and soil, delivery February 15th and later, \$2.00 per 100; \$15.00 per 1000.

Send your order at once, with cash, to get these figures. . . .

ALEX. McBRIDE,
ALPLAUS, N. Y.

50,000 CARNATIONS ROOTED CUTTINGS

Now Ready

Positively clear of RUST. Send for price list.

William Swayne,

P. O. Box 226. KENNETT SQUARE, PA.

THE BEST

WHITE ALASKA PINK SCOTT

CARNATIONS

HEALTHY STOCK NOW READY.

C. PESENECKER & SON, 290
Kilpatrick St.
JERSEY CITY, N. Y.

IVORY, NEW WHITE CARNATION.

Closely resembling Wm Scott in growth of plant and abundance of bloom. Flowers pure ivory white, of good size and fine form.

ROOTED CUTTINGS ready March 1st, \$10.00 per 100; \$75.00 per 1000.

Send for complete price list.

GEO. HANCOCK & SON, Grand Haven, Mich.

CARNATIONS—Rooted Cuttings.

DAYBREAK, TIDAL WAVE, SILVER SPRAY, LIZZIE McGOWAN, LOUISE SINGLER. \$2.00 per 100; \$15.00 per 1000.

GERANIUMS—Rooted Cuttings.

\$1.50 per hundred. 2 1/2 inch pots, \$2.50 per hundred.

C. LENGENFELDER,

Berteau and Western Ave., CHICAGO.

CARNATIONS

Rose Queen

Per 100 Per 1000

Rooted Cuttings.....\$4.00 \$30.00

Strong plants.....6.00 50.00

No Rust with us.

A. DONAGHUE, Omaha, Neb.

We have reached the top notch CARNATIONS

DELLA FOX and ANNIE H. LONSDALE

were exhibited at the American Carnation Society at New York.

DELLA FOX was conceded by carnation specialists to be the best vase of light pink ever staged at any exhibition. The adoration of the society ladies of New York was very expressive, and very many blooms could have been sold at the exhibition. Having been certificated in 1895 at Boston, it was not eligible for competition at New York, and not being disseminated, it could not enter in competition with varieties that had been disseminated. But lookout for it in 1897. As a grower you cannot afford to miss it.

ORDER AT ONCE.

Ready; Second Shipment March 20th.

COME AND SEE THEM.

One Hundred Dollars in Cash Premiums will be offered for the best 50 blooms of DELLA FOX in the fall of 1896—divided in the four largest cities in the U. S.

ROOTED CUTTINGS. Price: Less than 100, \$12.00 per 100. 100 @ \$10.00 per 100. 1000 @ \$75.00 per 1000. READY MARCH 1st, 1896. No orders will be booked unless cash accompanies order or satisfactory reference given. Sample cut blooms will be sent to florists' clubs only on application.

MYERS & SAMTMAN, Wyndmoor, Chestnut Hill, Phila.

CARNATIONS—Rooted Cuttings.

STORM KING, from sand or soil,	\$5.00 per 100; \$40.00 per 1000
BRIDESMAID, “ “	5.00 “ 40.00 “
METEOR, “ “	5.00 “ 40.00 “
SCOTT, “ “	2.00 “ 15.00 “
McGOWAN, “ “	2.00 “ 15.00 “
ALASKA, “ “	5.00 “ 40.00 “

CASH WITH ORDER, PLEASE.

CHAS. H. ALLEN, Floral Park, N. Y.

Carnations, Rooted Cuttings,

FROM FINE, HEALTHY STOCK PLANTS.

White—ALASKA, STORM KING, UNCLE JOHN. (no rust) McGOWAN.

Pink—ROSE QUEEN, PEACHBLOW, ALBERTINI, SCOTT, DAYBREAK, CARTLEDGE, Etc.

Scarlet—HECTOR, PORTIA, CORSAIR.

Crimson—METEOR, PRIDE OF KENNETT.

Variegated—H. KELLER, MINNIE COOK, CHESTER PRIDE.

Yellow—DEAN HOLE, BOUTON D'OR, BUTTERCUP, Etc.

All well rooted and sure to give satisfaction. Send for price list.

H. WIEBER & SONS, Floral Park, Oakland, Md.

CARNATIONS!

The two leading varieties

Alaska and Minnie Cook.

Buy from the originator and procure genuine stock. CUTTINGS NOW READY.

— ALSO —

ROSE QUEEN, DAYBREAK, WM. SCOTT, VAN LEEUWEN, TIDAL WAVE, Etc.

Write for price list.

McCORNAC & CO., Paterson, N. J.
Successors to H. E. CHITTY.

CARNATIONS.

Fine and healthy rooted cuttings of the following:

Meteor, Kohinoor, Bride of Erie, Rose Queen, Dean Hole, Lizzie Gilbert, \$1.00 per 100.

Daybreak, Scott, Cartledge, Tidal Wave, \$2.00 per 100; \$15.00 per 1000.

Silver Spray, Aurora, Portia, Lizzie McGowan, Mrs. Fisher, \$1.50 per 100; \$12.00 per 1000.

LADY CAMPBELL VIOLET RUNNERS, in any quantity at \$5.00 per 1000.

JOS. RENARD, Unionville, Chester Co., Pa.

CARNATIONS

Orders solicited for ROOTED CUTTINGS.

KOHINOOR takes the lead.

Other Novelties of the Standard sorts at standard prices. All healthy and strong.

C. J. PENNOCK,

The Pines. KENNETT SQUARE, Chester Co., PA.

CARNATIONS PEACHBLOW.

Rooted Cuttings ready April 1st, '96, \$5.00 per 100, and \$45.00 per 1000.

Book your orders early and be sure that you will get them. Sample blooms sent free.

ESTATE OF M. A. HUNT, Terre Haute, Ind.

FOR SALE.

25 CLIVIA MINIATUM (IMANTOPHYLLUM)

from 6 and 8-inch pots; splendid plants, 75c. each;

\$7.00 per dozen, cash.

H. Youell, Lot & Willow Sts., Syracuse, N. Y.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Omaha, Neb.

Business has been very satisfactory for the past two weeks, the demand being equal to the supply in almost everything. The weather has been warm and cloudy, and the cut limited. Roses are bringing from \$4 to \$7 per 100, and in quality the La France takes the lead. Brides and Bridesmaids are small and have weak stems. Carnations bring \$2, and the Day-break is most in demand. Romans, paper white and freesia are about the only bulbous stock being sold. No demand for tulips. What Harrisii there are sell rapidly and at a good price.

J. F. Wilcox of Council Bluffs, Ia., made a flying trip to New York City the latter part of January, bringing back with him a new foreman of his plant department in the person of J. M. Jakobsen, late of John N. May's establishment at Summit, N. J.

Mr. Wilcox has produced a new rose which he calls the climbing Bridesmaid, and those who have seen it praise it highly. It is a rapid climber, and so far has produced excellent blooms, being large and of good color. Mr. Wilcox would be pleased to communicate with anyone who has produced anything similar.

Mr. W. has three houses devoted to violets, which are producing some of the finest blooms ever seen in this section, and they are selling well.

J. W. and E. E. Arnold have moved their down-town store from 121 No. 15th street to 207 S. 16th street, opposite the Y. M. C. A., and more centrally located.

Lewis Henderson opened a branch store at 1514 Douglass street, but it only required a short time to convince Mr. Henderson that he had got "beyond his depth." Hereafter he will be found at his former location, 222 So. 16th street, with a front window.

Sam'l Falconer has put in a telephone and will content himself with his greenhouse trade for this spring at least.

G. R. H.

Helena, Mont.

Mrs. Wells had a small fire January 14, loss about \$150. The floor of the house over the boilers was half burned away.

H. Winters' place is in fine condition, and he reports trade as excellent.

There has been some sharp cutting of prices by local florists, and carnations have been retailed as low as 25 cents a dozen, good fancy roses \$2 a dozen, and Romans 50 cents a dozen. W.

NEWARK, N. J.—Heyman's greenhouses, concerning which legal proceedings have been going on for over four years, have been sold to the proprietors of the Hotel Breslin at Mt. Arlington, to which place they have been removed.

PAWTUCKET, R. I.—The Rhode Island Greenhouses on Pawtucket avenue have been leased by S. J. Reuter of Westerley, who has placed Mr. A. Millar, formerly of Manchester, N. H., in charge as foreman.

GREEN AS GRASS.
Verbenas rooted cutting in eight separate colors.
Per 1000 \$7.50, per 100 80c.

For quality of stock see Rochester notes in AMERICAN FLORIST, issue of October 5th, 1895.
FRANK S. PAYNE,
Cash with Order **WHOLESALE FLORIST.**
Barnard Crossing, N. Y.

Always mention the American Florist when writing to advertisers.

ROSES, TREES, BULBS, PLANTS.

200,000 Strong, hardy, nursery grown Roses.
500,000 Pot Roses, Teas, China, Bourbon, etc.
Greenhouse plants of all descriptions.

100,000 Elegant Poplars, 5 to 25 feet, Carolina Aurea, Lombardy.

ONE THOUSAND CAR LOTS OF OTHER ORNAMENTAL TREES, SHRUBS, Etc.

250,000 Peach, choicest sorts.
150,000 Pear, standard and dwarf.
100,000 Plum, best European and Japan.
75,000 Cherry, Morellos, Hearts, etc.
150,000 Apple, Quince, Apricot.

100,000 Nut bearing trees.
2,000,000 Small Fruits, Grapes, Currants, Gooseberries, Raspberries, Blackberries, Dewberries, Strawberries.

We occupy one and a half miles on the bank of Lake Erie. No healthier, hardier trees are grown on the continent. Catalogue and Trade List free. Lower quotations given on large lots. Write us We can do you good

42nd YEAR. 1000 ACRES. 29 GREENHOUSES.

THE STORRS & HARRISON CO., PAINESVILLE, OHIO.

Mention American Florist.

PALM SEEDS

WE GUARANTEE full germinating power & replace seeds not germinating

Cocos Weddelliana.....	\$12.00	\$55.00	\$100.00
Areca lutescens.....	10.00	47.50	90.00
Areca rubra.....	10.00	47.50	90.00
Geonoma gracilis.....	12.00	55.00	100.00
Geonoma Schottiana.....	15.00	65.00	120.00

On hand in excellent condition.

Latania Borbonica,

50c per 100; \$1.75 per 1000; \$12.00 per 5000.

Pandanus Utilis

\$1.50 per 100; \$12.50 per 1000; \$50.00 per 5000.

Chas. Schwake, 404 E. 34th St., New York.

6,000 BEGONIA NIVEA,

AT REDUCED PRICES.

The New Everblooming Apple Blossom Begonia. We have a large stock of this grand winter blooming and summer bedding plant, it being covered with elegant panicles the whole year round, making it a valuable market plant. In color it is of a delicate pink when in bud, expanding through lighter shades to snowy whiteness when in full flower, giving it an apple-blossom appearance, that is unique, and what the ladies call "just lovely."

In order to make room, and to place in reach of all, we offer 6,000 plants only at reduced rates. If ordered before March 1st, 1896, after which date, prices will be advanced. It is a most vigorous grower, propagates easily, and has come to stay. The plants are well branched, well established and first-class in all respects, and sure to give satisfaction. Up to date florists should secure some of this stock for their floral work.

We guarantee safe arrival in good condition, and extras added to all orders of one dollar and upwards by express. Cash with the order. 50 plants at 100 rates.

	Each	Doz.	100
From 2 1/2-inch pots.....	.15	.10	\$.75
" 2 1/2-in. pots, ex. strong plants.....	.20	.15	1.00
" 4-inch pots, well branched, full bloom.....	.25	.20	1.25
" 5-inch pots ext. strong heavy plants in bloom.....	.35	.25	2.00
" 6-inch pots, too large to mail.....	.50	.30	2.50
Rooted Cuttings to order, \$20.00 per 1000.....			2.50
Strong stems with leaves, buds and bloom.....			1.00
Large panicles, ships well.....			.50

J. ELLETSON,

Floral Nurseries, AUBURN, N. Y.

ORCHIDS OUR SPECIALTY.

THE FINEST STOCK AND SELECTION IN THE WORLD.

New and Rare Plants for the Stove, Greenhouse and Conservatory.

SANDER, St. Albans, England,A. DIMMOCK, Agent, care Rolker's Auction Rooms, 106 and 108 Liberty Street, New York City
Send for illustrated catalogue.**Bulbous Begonias.**

LAING'S STRAIN. In separate colors.

Lilium Longiflorum, Tuberoses, Spiraeas, etc. Now on hand.

Ask for prices.

HULSEBOSCH BROS., Englewood, N. J.

PALM Seed.

Orders taken now for Spring and August delivery of the following varieties germinating power 75 to 90 per cent

CROP '95 & '96.

Areca lutescens.....	1.25	10.00	\$45.00
Cocos Weddelliana.....	1.25	10.00	47.50
Geonoma gracilis.....	1.50	12.00	50.00
Kentia Belmoreana.....	1.10	7.50	35.00
" Forsteriana.....	1.00	7.50	35.00

Now on hand, fresh stock:

Latania borbonica.....	.35	2.50	10.00
Erythea armata.....	1.50	12.50	
" duleis.....	1.50	12.50	
Sabal serrulata.....	.50	4.00	
Washingtonia filifera.....	.25	2.00	
" robusta.....	.35	3.00	

J. L. SCHILLER, Rutherford, N. J.

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address **GEORGE WITTBOLD,**
1708 N. Halsted St., CHICAGO.
Mention American Florist.

AZALEAS, PALMS, ARAUCARIAS, BAYS, SANDER, Bruges, BELGIUM.

Agent: **A. DIMMOCK,**
106 & 108 Liberty Street, NEW YORK.
SEND FOR SPECIAL OFFER.

SPECIALTIES

IN BEST VARIETIES.

ROSES, from 3-inch pots.
CARNATIONS, for fall delivery.
CHRYSANTHEMUMS.
SMILAX.

VIOLETS.

Prices low. Send for list.

WOOD BROTHERS, FISHKILL, N. Y.

When writing mention American Florist.

E. G. HILL & CO.,**Wholesale Florists**

RICHMOND, INDIANA.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.



New Seedling Chrysanthemum WM. SIMPSON.

Certificate of Chrysanthemum Society of America, November 2d, 1895.
First Premium for best Pink American Seedling, Pennsylvania Horticultural Society Exhibition, November 5th, 1895.
Certificate of Merit, Pennsylvania Hort. Society, November 5th, 1895.
Silver Medal for best American Seedling, Pennsylvania Horticultural Society, November 5th, 1895.

- See Garden and Forest, - Nov. 20th, page 465.
- " Florists' Exchange, - Nov. 23d, " 1144.
- " American Gardening, - Dec. 14th, " 415.
- " American Florist, - Jan. 25th, " 652.
- " Gardening, - - - Feb. 1st, " 151.

It is the **EARLIEST LARGE CHRYSANTHEMUM GROWN.** Has been cut as early as Oct. 15th; flowers measuring 11 inches in diameter. A good strong healthy grower, stiff stem, 4 to 5 feet high, with clean foliage.

Will be sent out March 15th, 1896. Price to the trade,
\$5.00 per dozen; \$35.00 per 100; \$200.00 per 1000.

JOSEPH HEACOCK, Wyncote, Pa.

And for sale by Henry A. Dreer, 714 Chestnut Street, Philadelphia; Henry F. Michell, 1018 Market Street, Philadelphia; Geo. C. Watson, 43 N. 10th Street, Philadelphia; E. G. Hill & Co., Richmond, Ind.; Nathan Smith & Son, Adrian, Mich.; The Cottage Gardens, Queens, L. I., N. Y.; Henry G. Standen, Haverford, Pa.; A. Blauc, Philadelphia, Pa.; Robt. Craig, 49th and Market Sts., Phila.; J. C. Vaughan, 81 Randolph St., Chicago, Ill.; John N. May, Summit, N. J. Mention Am. Florist.

OUR NEW CHRYSANTHEMUMS FOR 1896

Have been fully indorsed by the
Chrysanthemum Society
of America.

Descriptions and prices free on application.
NATHAN SMITH & SON,
Adrian, Mich.
When writing mention the AMERICAN FLORIST.

NEW SEEDLING CHRYSANTHEMUM MRS. ADELAIDE WHITE.

We have grown this for three years, and recommend it for exhibition, as specimen plant, or cut bloom. The *Florists' Exchange*, Dec. 7, '95, page 1190, said of it, "The flower is of the hairy Japanese type, the color is entirely different from anything we have seen in that class. The lower florets were deeply suffused with pink, the upper ones being a clear white color; the combination making a pleasing effect."

READY MARCH 15th, 60c. each; \$6.00 per doz.
Orders booked in rotation.
W. MENEILLY & SON,
1218 James Street, SYRACUSE, N. Y.

CHRYSANTHEMUMS.

80 New Varieties, including
Miss M. M. Johnson, J. E. Lager, Philadelphia, Minerva, Marie Louise, J. H. Troy, Mrs. Henry Robinson, Sunrise, Miss G. P. Fitcher, John Shrimpton, Royal Windsor, Mrs. S. T. Murdock, H. W. Rleman, Miss F. Pullman and Zulinda. Fifteen plants for \$1. Send for catalogue. Address
M. B. LITTLE, Glens Falls, N. Y.

PANSIES.

All the finest strains. Per 100 Per 1000
Large transplanted plants.....\$.60 \$ 4.50
MAMMOTH VERBENAS......70 5.50
NEW CALIFORNIA VIOLET-Rooted......70
Runners......2.00 15.00
LITTLE BEAUTY FUCHSIA-Rooted......2.00
Cuttings......2.00
These plants are ready to be delivered at once.
S. WHITTON & SONS, Wholesale Florists,
City and Green Sts., UTICA, N. Y.

TWO BEAUTIFUL NEW CHRYSANTHEMUMS GRETCHEN BUETTNER. MRS. E. BUETTNER.

A large, beautiful white of great depth; distinct in color and form. Strong stem and fine foliage. 3½ ft. Crown bud. Certificate of Merit Horticultural Society, Chicago. First Class Certificate N. C. S. (See Am. Florist, Nov. 16.)
\$5.00 PER DOZEN; \$35.00 PER 100.
READY MARCH 1, 1896.

A beautiful clear yellow reflexed flower, in form like Morel, with excellent stem and foliage. Late. 3½ feet. Crown bud.
First Class Certificate N. C. S.
\$4.00 PER DOZEN; \$25.00 PER 100.
ORDERS BOOKED NOW.

E. BUETTNER, Park Ridge, Ill.

PINK IVORY,

(MISS AGNES L. DALSKOV.)

Young Plants, \$2.00 per Dozen; \$10.00 per 100.

ORDERS BOOKED NOW FOR DELIVERY MARCH 1st.

M. HANSEN, New Durham, N. J.

NEW CHRYSANTHEMUM IVOIRE ROSE,

A Sport from Ivory. Without doubt the best all round variety grown for general purpose. In color it is a beautiful silvery pink. No grower should be without it.

We offer plants from 2-inch pots, March 1st delivery, at \$3 per dozen; \$20 per 100. Orders booked and filled in rotation.
JOHN BREITMEYER & SONS, DETROIT, MICH.

PINK IVORY.

Strong, healthy plants, \$1.50 doz.; \$4 per 50; \$6 per 100

Most complete collection of Chrysanthemums and Cannas at lowest prices.
Begonias, \$2 25 per 100. If interested send for list. Seed of either 25c.

Send for Trade List. **T. H. SPAULDING, 40 E. 25th St., New York.**

CLEMATIS.

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Hackensack, N. J.

Lehnig & Winnifield have a fine lot of pot grown carnations ready for spring sales. The variety used for this purpose is 'resident Garfield; it is a very hardy carnation, these plants having been wintered until a few weeks ago in cold frames, with no other covering than that the lights afford. The plants are in fine healthy condition, and are of uniform size and good shape. This lot of 4,000 plants will be a fine sight when in bloom, and they promise lot of bloom. This firm is sending in some of the finest carnations to the N. Y. Cut Flower Co. They have found this season Wm. Scott the best paying variety, and they have cut some remarkably fine flowers. The system of overhead heating is used exclusively at this place, and seems to be just the thing for carnations and cyclamens.

The cyclamens for next season are looking very well. The seed was sown in August, and now the plants have just been transplanted for the second time, 14,000 of them. If the demand is as good next year as it has been this there will be none too many of them. Lehnig & Winnifield expect to extend their glass this year and build some of the most improved houses for the culture of carnations.

S. M. T.

Germantown, Pa.

The regular monthly meeting of the Germantown Horticultural Society was held in Association Hall, February 10, President Jones in the chair.

An excellent display of blooming orchids and azaleas was made and some seedling carnations blooms were shown, to give point to the discussion. After business had been transacted Mr. Young opened the discussion on carnations, taking the rapid growth of hybridizing as his theme. He attached much importance to each grower making some effort to improve his stock by cross fertilization, giving a brief history of what had been done in the past and urging what might be done in the future by intelligent effort.

Mr. Woltemate came next. He attached much importance to a thorough knowledge of botany, a study much neglected by florists and gardeners.

Mr. Redles then gave a brief illustrated lecture on hybridization which was followed by a general discussion on the running out of varieties and its cause, closing one of the most interesting and best attended meetings held this season.

J. W.

Erie, Pa.

Mr. Henry Niemeyer has a sport from Daybreak carnation that strongly attracted me. It is a beautiful red tinted, long-stemmed flower, and it struck me as a promising novelty.

Mr. N. thinks much of this sport, and the fact that it has stood the test of three years predisposes him to the belief in its intrinsic value as a cut flower. HOMO.

DOUGLSTON, N. Y.—Fritz Berkahn has taken the Albert Benz place recently vacated by Ellebrecht Bros., and will endeavor to restore it to its old time prosperous condition.

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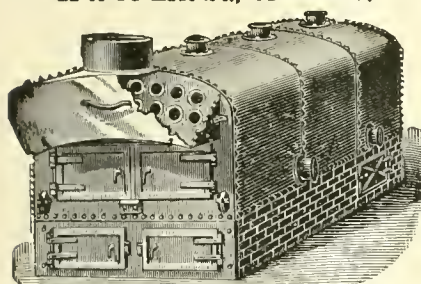
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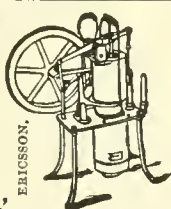
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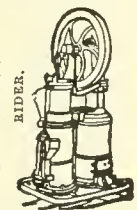
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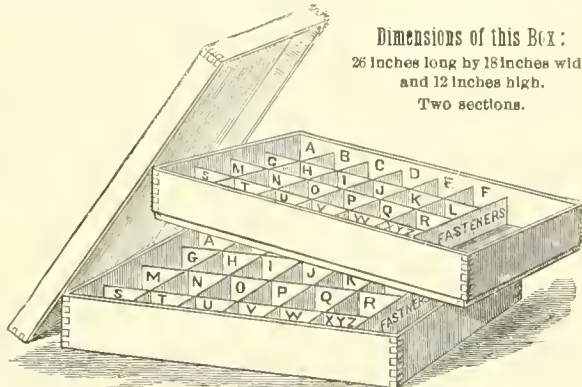
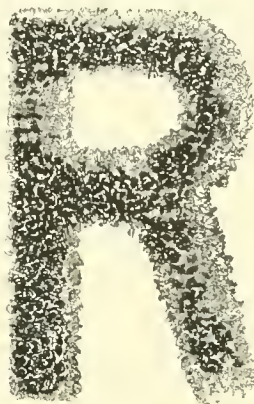
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News Notes.

JEFFERSON, N. Y.—Mann & Rider is the name of a new florist firm in this place.

NEWARK, N. J.—During the storm of February 6 the greenhouses of A. C. Schroeter were damaged to the extent of \$1,000.

NYACK, N. Y.—The greenhouses of Thomas Lynch were flooded with water during the recent storm, and considerable damage was done.

HAVERHILL, MASS.—At the annual meeting of the Haverhill Horticultural Society on February 10 officers were elected as follows: President, J. M. Davis; vice-presidents, W. Hoyt and T. E. St. John; secretary, Jas. How; treasurer, W. B. Taylor; librarian, Geo. H. Hill.

CLEVELAND, O.—John Smith has erected two more houses 20x65, having a glass surface of 3,000 square feet. These give him a total of 8,000 square feet. One of the new houses is planted with roses, and the other with carnations and lilies. The latter will be also planted with roses the coming season.

MILWAUKEE.—A vase of carnations on exhibition here recently attracted some attention, and the comments made are encouraging to the grower, Mr. Lewis Turner of Kenosha, Wis. The color is precisely like the Bridesmaid rose, flowers 3 inches in diameter, good stout stems, the odor sweet, but not strong, the flower shaped like Rose Queen.

HOLYOKE, MASS.—The annual meeting of the Horticultural Society was held on the evening of February 7. Officers were elected as follows: President, Dr. E. A. Reed; vice-presidents, Mrs. C. W. Ranlet and C. A. Corser; secretary, G. R. Hicks; treasurer, C. E. Mackintosh. Rev. Mr. Hutchins of Indian Orchard delivered an address on sweet pea culture.

NEWPORT, R. I.—At the monthly meeting of the Newport Horticultural Society on February 12 a debate took place on the question "Are the exhibitions of the Newport Horticultural Society educational in their influence?" The question was decided in the affirmative. A certificate of merit was awarded to carnation Della Fox, which was on exhibition.

BABYLON, N. Y.—E. B. Sutton is growing some very fine carnations. Daybreak succeeds remarkably here, and the blooms, which are sent to John I. Ravnor, are among the best being sent to New York. The soil is light and sandy, and seems particularly adapted to Daybreak. In roses Perle des Jardins is making an equally favorably record as to quality and productiveness. Wm. Wincott has charge of the houses and Mr. Sutton does the honors of the establishment with a liberality that is unbounded.

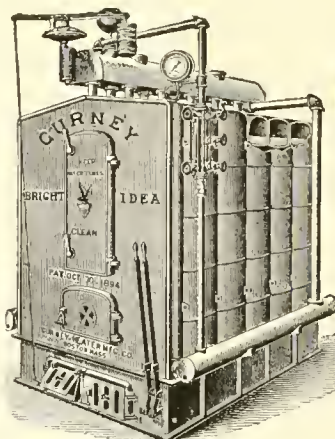
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Announcement to Florists.

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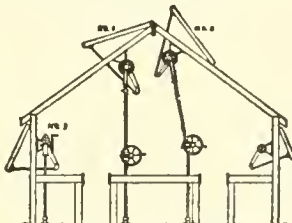
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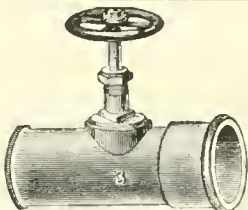
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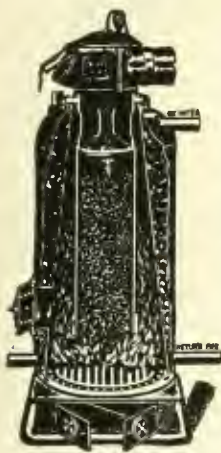
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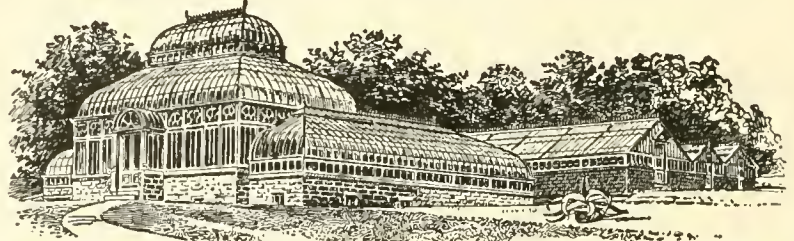
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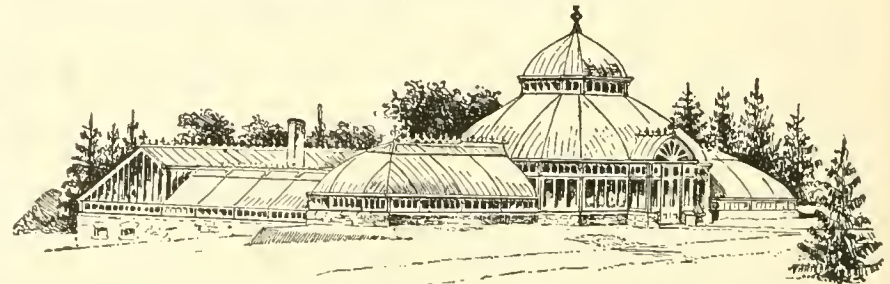
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Vol. XI

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The twelfth annual meeting will be held at Cleve-
land, O., August, 1896.

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PRESIDENT SCOTT is getting along finely,
and there is a good prospect of his being
able to use his limb next month.

IF YOU have anything to sell to the
trade a strong adv. in our special spring
number, to be issued March 21, will be
the best investment you can possibly
make. Extra value but no extra charge.

HOLBROOK, MASS.—The Samuel Baker
place has been sold to Henry Lively of
Dorchester, who will proceed to erect an
extensive greenhouse establishment.

Herbaceous Plant Notes.

The often repeated objection to the per-
manent planting of beds and borders with
hardy herbaceous plants is that these
plants after flowering will present an un-
tidy and unattractive appearance for the
rest of the season, but where a judicious
selection has been made at planting time
this objection may easily be overcome or
avoided in several ways. In going over
a border of herbaceous plants in the
spring we may find many mistakes made
in planting as to the different heights, and
also in the colors of adjoining plants or
groups of plants not harmonizing. Of
course it is variety that we wanted when
planting the borders, but considerable ex-
perience and a full knowledge of the habit
of the numerous species is necessary to
correctly plant such a border. Anyone
who undertakes such a task without this
thorough knowledge of the material will
usually make a failure of it in planting
either too close and thickly, or indiscrim-
inately placing different unsuitable heights
adjoining each other. Such mistakes are
easily altered in spring and should be
done as soon as the ground is open and
free from frost. In planting it is always
well to leave vacant spaces here and there
in the border, not only for the spreading
of the permanent herbaceous plants, but
also for the accommodation of summer
flowering or bedding plants and annuals.
By introducing such softer and free
blooming plants as Phlox Drummondii,
petunias, verbenas, asters, scabiosas,
Marguerite carnations, gomphrenas, zin-
nias, salpiglossis, mirabilis, calendula and
marigolds, etc., into such vacant spaces,
the border may be made to look attract-
ive in times when some of the permanent
plants are past their blooming.

In many private places this style of
planting has been adopted and is consid-
ered a complete success. An herbaceous
border is not expected by anyone to pre-
sent an even uninterrupted surface like a
designed flower bed, in fact the beauty of
it is in the variation of heights and in the
difference of the habits and foliage of the
various plants employed. I always ad-
vocated the planting of a dozen or more
plants of the same species together in a
patch, allowing them room enough to
grow and spread out, and adjoining this
patch to plant some other species which
will bloom at another season, or if their
flowering season should be the same,
then be very careful and particular that
both colors harmonize well together.
Now, such taller plants as delphinium,
some of the lychnis, the stronger growers
of campanulas, etc., which after flower-
ing become unsightly and have to be cut
down, may be planted among lower and
compact growing plants which would
cover the otherwise bare ground, and
where the taller plants are allowed ample
space from the beginning these dwarfier
plants will have light and room enough

to do well. The evergreen candytuft,
Daphn? Cneorum, dwarf veronicas, the
beautiful Campanula carpathica, thymus,
dwarf creeping phloxes, or if nothing bet-
ter is at hand the common Vinca minor
may be employed for this purpose. We
should endeavor to have the ground in
these borders always covered by some
growth, so where we have a patch of nar-
cissus or other bulbs planted which lose
their foliage after flowering and would
leave an unsightly bare spot in the bor-
der, this space should either be perma-
nently planted over with some low plant,
as mentioned above, or else filled with
soft bedding plants or annuals, and this
should be done as soon as the weather
permits in spring. If the idea prevails
that a herbaceous border is flowerless
during a considerable part of the season
it is quite erroneous, for in a well arranged
border of only ordinary dimensions we
should be able to gather flowers every
day from the time the snow leaves the
ground until late fall.

In early spring, as soon as the snow
disappears, the bulbous stuff, such as
snowdrops, scillas, etc., arabis, hepaticas,
violets and many more, will appear, fol-
lowed closely in April by the primulas in
variety, iberis, adonis, several anemones,
omphalodes, doronicum and a host of
other things, in May the bulk of the Hol-
land bulbs come in, trolilus, corydalis,
A'ysum saxatile, some of the iris, the
dwarf phloxes and others will be in
bloom. In June, July and August there
cannot possibly be a scarcity of flowers
in great variety on the border, for it
would take a good sized catalogue to
enumerate all the species and varieties
blooming at that time. September will
bring on the early fall flowering species,
some of the heleniums, Senecio pulcher,
anemones, rudbeckias, achilleas, many of
the asters and helianthus are only a few
of the many useful September flowers. In
October the later flowering asters, stok-
sia, Plumbago Larpentæ, Pyrethrum
uliginosum, gaillardias, anthemis, the
holtonias and others will last well into
November if the weather is not altogether
too severe. Even in midwinter we are
enabled to gather a few flowers from the
border. On January 1 I picked a good
sized bunch of perfect Christmas roses,
Helleborus niger, from our unprotected
border. There is such a large variety of
stock to select from, every shade and
color being represented, many of the
species continuing to bloom for several
months, and it seems to be easy enough
to make a selection, still a thorough
knowledge of the plants and their habits,
the time of flowering, their respective
height, etc., is surely necessary if the best
results are expected in a border planted
for effect. In case we should only want
them for cut flowers or commercial pur-
poses, planting in rows or beds, nursery
fashion, is perhaps the better way to

grow them, for in such case we are not planting to produce a continuous show, yet every florist if he grows hardy plants at all may find it profitable in the end to devote a little time and attention to a border or a few beds near or around his houses, to show his customers and visitors what can be done with hardy perennials.

Pretty permanent flower beds may be planted entirely with these plants or in combination with bulbs. We planted a bed of such a year or two ago in a private garden. This bed had been planted to single daffodils in the fall, and to make it permanent we pretty nearly covered over the whole with pink dwarf phlox, inserting here and there a plant of blue and white *Campanula persicifolia* and also *Anemone japonica*. The first to bloom in early spring was the phlox, these were hardly over when the narcissus pushed their flower buds over the mossy surface, then the campanulas came and lasted until the anemones opened out their flowers which continued to bloom until frost. Such a bed will give far better satisfaction to a majority of planters than an ordinary flower bed of bedding or foliage plants, which only look well from the middle or end of June to the latter part of September, while the herbaceous bed is well supplied with bloom from early spring until late in October or even November, and has the additional charm of presenting an entirely different aspect every month or two. Many other plants may be combined in a bed of this kind with similar or even better effect, and perhaps I shall give a few suggestions of such combinations, according to my ideas, some time or another before planting time.

J. B. KELLER.

Rochester, N. Y.



Carnation Rust.

Never having had the "rust" on my place, and considering it catching, like small-pox, I have always been very careful not to introduce it by buying of growers who did not advertise clean stock. I am in receipt of a letter from a grower that puts a new face on the catching and trouble of having the rust in one's place, and I would like very much to have the ideas of those who have written and labored to exterminate the so-called pest. To use his words, "Rust is so universal that we seldom think of the matter unless asked." Again, "This rust matter has been exaggerated so much there is no wonder that people fear it who do not have it; I did myself until I found out by experience that it amounted to very little after all." Now from this standpoint, why use anything to kill it? Why trouble to write about it? And why does Mr. E. G. Hill use his arsenical preparation?

From what I read and am told by growers who have it, I would consider it a great damage to the plants, and a house badly affected had better be thrown out, and cleaned and fumigated. I hope I will hear from others who can speak from experience, for if harmless there has been lots of time wasted in writing up the many cures for it.

B.

In giving my opinion on the above com-

munication I will say that I can not speak from experience, but have watched this disease from its first appearance. This inquiry is rather pertinent in the face of these comments made on this disease. This rust matter is treated by many as a chestnut, is taken in too light a manner, as an evil we have to contend with, and neglect takes place where watchfulness should be observed. Such a disposition must have caused to make this comment: "Rust is so universal that we seldom think of the matter unless asked." This may seem a careless remark, but it is very untimely and does not reflect any credit on the commentator. Then again when he says "This rust matter has been exaggerated" I concur to some extent, for everything is liable to get exaggerated, good and bad, appreciation and fear. Fear often paints the most exaggerated pictures. But when he says that he "found by experience that it amounted to very little after all" it is a bad exaggeration in his endeavor to diminish the effects and appearance of this evil in the eyes of the unwary and careless.

To look this rust matter square in the face, it is no little thing to contend with. True, I have seen houses with rust infested plants that apparently did not seem much the worse; it seemed not to impair their blooming. These eruptions on the otherwise healthy leaves and stems, resembling sores, are very repulsive. The plants show a great resistance when otherwise healthy, but can they hold out in their resistance? The total destruction at other places does not confirm this idea.

Dr. Arthur of the Purdue Experimental Station, told me that he tried over and over again to grow rust on plants in their greenhouse, but was unable to do so, and attributes this to their location and dryness of the air in this locality. Now this explains to some extent the freedom or virulence in different localities, where not so much care and watchfulness is observed to ward off this pest. We must not exaggerate, but we can not take it too lightly either. With the culture of any kind of plants taken from their primitive wild state diseases will follow. Each variety has its own peculiar enemies, coming to better notice as we learn their nature more and more; and again disease may be the result of culture, for we do not know their nature fully enough. Among the many diseases we find in carnation culture rust is one of the worst. I said once before if the malignity of this disease had been better understood at the time of its appearance many a grower would have been more careful, and many a one would have hesitated to send out infected stock and helped to spread this disease. As it is now it is spread widely, but hardly universally, and the one who takes it light and says that it amounts to very little after all, and induces others to lag in their watchfulness, commits a wrong. I believe I only express the sentiment of all carnation growers, those who make light of this disease included, that the extermination of the rust would be the greatest blessing carnation culture could receive.

FRED. DORNER.

Arsenical Solution for Rust.

In reply to your subscriber's inquiry we will say that the simplest and safest way to use the arsenic cure for rust is to buy "Fowler's solution" and use a one-ounce bottle to 8 gallons of water, and with this syringe the plants so as to wet the foliage thoroughly. It is not a preventive apparently, as the arsenic seems only able to kill the rust after the rust has broken

through the skin of the grass; it kills the diseased leaf outright, and then this dead foliage should be gathered and destroyed. We think that infected plants should be syringed about once a week; three applications cleared up some of our worst cases.

We were sorry that we did not discover the efficiency of the solution earlier in the season, for owing to the unusually long continued dark weather, unbroken by even occasional bright days, we could not apply it as often as it should have been. We believe that by beginning the treatment promptly with young stock this spring it may be kept entirely out of the houses another year.

In using the druggist's prescription—"arsenic acid C. P. 616 grains, bromide of potash 1236 grains, water 4 ounces; heat to make a solution"—great care must be taken not to inhale the vapor while mixing; for this reason the Fowler's Solution is the safest, and it must be used with the greatest care by the person in charge, and the solution should be kept under lock and key to prevent accidents.

E. G. HILL & Co.

Bacteria in Carnations.

"A Constant Reader" asks what is the cause of bacteria in carnations.

The Purdue Experimental Station at Lafayette, Ind., will issue an illustrated bulletin on bacterial diseases, prepared by Dr. Arthur. This gentleman is authority in this matter, and as this bulletin will be sent to all who will apply for it free, I would kindly refer "Constant Reader" to that paper. If not ready now it will be so in a short time. The carnation growers are much indebted to Dr. Arthur for his zealous efforts to help them in their vocation in the abatement of diseases peculiar to carnations.

FRED. DORNER.



Rose Troubles.

Allow me to state through your columns our troubles with our roses. Plants were set in solid bed last June and made a fair growth during the summer and fall months. In the late fall the plants in one end of the bed began to wilt and die. On examination we found that grub-worms were the cause; we succeeded after awhile in killing most of them but they succeeded first in killing many of the plants.

After replanting several times we finally got a fair stand of growing plants that did well for a time, when they began to show signs of disease, turn yellow, shed their leaves and die. On examination we found the soil perfectly alive with a small worm, very small indeed, resembling somewhat an angle worm only about an inch in length, one end (head I guess), nearly white. What is it? Was it those that killed the roses? Guess so, as after saturating the bed twice with strong lime water the plants began to improve and we find no more worms.

J. W. M.

Kansas.

I do not know of any worm that answers to the above description. My



AQUATICS IN UNION PARK. CHICAGO, LAST SUMMER

first thought was that it was possibly the centipede, but presume that such is not the case. It may be that this particular worm is indigenous to Kansas, if so we hope it may always be confined to that region. It is fortunate that something as simple and harmless as lime water will completely destroy them.

ROBT. SIMPSON.

Decorative Plants.

With the approach of spring active growth will re-commence with the many plants that are included in the above heading, and with this renewed activity there are many operations to be remembered by the grower who wishes to keep his stock up with the times. Propagation, re-potting, cleansing and re-arrangement are prominent in the work of the season, the latter item, that of arrangement, being one of considerable importance both to wholesale and retail dealers. The propagation of many plants will be found easier to accomplish during the next three months than at any other season, and it is therefore best to begin this work at once.

Crotons having attained much greater popularity during the past three or four years, are deserving of remembrance now, and cuttings of moderately firm wood will root readily at this season, providing they are given a rather close atmosphere and some bottom heat. The cuttings in question can be rooted in a sand bed in a warm propagating house, but I prefer the method of placing them either singly in 2-inch pots filled with cocoa-fibre or light sandy soil, or several cuttings in a 4 or 5-inch pot, the pots to be plunged in a propagating frame. By this plan the

cuttings are much more under control, and a very small percentage will be lost.

It will of course be remembered that in order to grow on the young crotons rapidly for spring sales, they should be kept up to 70° at night, with a moist atmosphere and plenty of sunlight, these conditions being modified somewhat for a short time before the plants are offered for sale, else they would be too tender to stand much exposure.

Acalyphas and sanchezias are also included in the available stock for spring sales and summer bedding, and these will flourish under very similar conditions to those indicated for crotons, though after acalyphas are well established they may be grown in a slightly lower temperature, in fact with the same treatment that coleus enjoy. *Acalypha musaica*, *A. tricolor* and *A. marginata* are probably the most useful species, their rich coloring and luxurious growth making them highly attractive for large beds. Of the sanchezias, *S. nobilis* var. and *S. glaucophylla* are the best, both being strong growers and producing large and striking leaves under liberal conditions of soil and moisture. Cuttings of young growth root in a very short time, and usually require 3-inch pots at once, for they make roots quickly and do not like to be pot bound.

The ever-popular *aspidistra* may also be propagated to advantage at this season, not only the rhizomes with leaves attached being available by means of division, but also the rhizomes or underground stems without leaves can be put to good use in this way, it being only necessary to cut them up into lengths of about one inch, then plant the cuttings in pans or boxes of sand or sandy soil, the cuttings to be covered to a depth of

about an inch, and place in a warm house until the first leaf develops, when they may be potted off singly into small pots, and grown into useful little plants for the following year's crop.

Some of the aralias are also valuable either as house plants or for bedding out, one of the best being that known commercially as *Aralia Sieboldii*, though more properly named *Fatsia japonica*. Both the green and the two variegated forms of this plant are first-rate subjects for house culture, the green one, when grown cool, being about as hardy and dust-proof as an *aspidistra*. *Fatsia papyrifera* (or *Aralia papyrifera*) is somewhat similar to the above in habit, though not quite so tough, and like it may be readily propagated by means of seeds or root-cuttings, the latter being an easy method where the stock plants are not old enough to produce seeds. *Aralia Veitchii* and its narrow leaved form known as *A. gracillima* are among the most beautiful foliage plants to use in a small state in table ferneries, window boxes and outdoor vases, but unfortunately they are somewhat difficult to increase except by means of grafting on *Aralia reticulata* or *A. Guilfoylei*, and when grafting is mentioned it usually brands the plant in question as being too slow or too delicate for the average grower to handle to advantage. *Aralia Veitchii* is not, however, so delicate as it appears, unless grown in a very high temperature, as I have proved by being able to use the same specimens for two or more seasons in refilling vases for outdoor decoration.

Pandanus Veitchii and *ficus* must not be forgotten in the spring propagating, for while cuttings of these plants may be rooted at any season, yet they root more

promptly at this time than at any other, and also with a less percentage of loss.

W. H. TAPLIN

Dahlias.

The dahlia promises to come into prominence again. The societies and the trade mean to see what can be done towards filling in the late summer and early autumn with the fine old flower, and why not? There are portions of this country at any rate where it does very well indeed, and it is also very likely that American florists may find a way to make it a companion for the chrysanthemum, and so help out and add interest to their fall shows. There are often means at hand to do this. Most florists have a stack of spare sash which are not in use very much before chrysanthemum time, and to protect dahlias with them would be easy. A scantling frame would be so easy to build that no one needs to be told how. It is only necessary to remember at planting time that the plants are to be disposed with protection in view. Every florist knows how to propagate and care for a dahlia surely. Everyone does not know the history and climate of the plant so well perhaps, at any rate I have never met with a comprehensive account of the Central American climates, and analogy is the best I can offer.

The dahlia has four, perhaps five, good species. They are all Mexican and Central American. Three of these are grown at Kew outdoors—the barren-rayed *D. coccinea*, the fertile rayed *D. variabilis* and *D. scapigera*. From these single species the great host of garden forms have been derived.

The Marchioness of Bute introduced dahlias into England by way of Spain in 1789. These early plants were lost, however, probably because the gardeners had no idea of their requirements. Seeds were again obtained by Lady Holland in 1804, yet they attracted but little attention until they began to produce double varieties from English seeds in the years from 1814 to 1834 and onwards. From the advent of the first double flower to this day their position has been secure in every British garden of any pretension.

The comparatively cool climate of Britain is admirably adapted to the dahlia, which seems to point to its being a mountain plant, and further on we will find that it naturalizes in such regions. In the south of England the tubers will occasionally live in the ground through the winter, but no practical advantage is gained from that fact. Their climate does, however, admit of the early flowers ripening seed, and that is a fact of real practical importance in the improvement and development of the flower, for to it we owe the greater number of our best varieties. They store the seed dry, sow it in February or March, plant out in May, and make their selections the same season. They generally show their characters within a year. It is always well to strike a few tops of a fine new variety, for there is a possibility of the tubers being lost, and it is better to have two strings to the bow.

In some portions of the mountains of India the dahlia has run wild, in common with other Central American plants. It is always single in the wild state, but it varies considerably in color—yet there are no scarlets—but yellow in two or three shades, and half a dozen shades of crimson and maroon. The double varieties deteriorate in the gardens and cannot be kept up to the standard after ripening a crop or two of seeds. They seem to devote their chief energies to the

seed-bearing business, and any such matter as the multiplication of ray flowers is neglected by them. There may be some among you who will like to know just what kind of a climate the dahlia feels so much at home in, the soil temperature is never below 45° where the seed vegetates, and ranges from that to about 70° above that of the air. The minimum temperature ranges from 42° in January to 54° in April and May, which are the warmest months. The maximum ranges from 60° in December to 68° in April and May. The four months of the year from December to March inclusive have about one inch of rain each. May and June have two or three inches each. The months from July to October have seven to nine inches each. November seldom has any. Such rest from growth as the plants get is during the comparatively dry winter months. This rest, however, is not nearly as radical as we make it, and it occurs to me that the chief seed bearing and ripening is done during the period of partial stagnation. From this it would seem that there need be no great difficulty in lifting and humoring dwarf dahlias to flower as pot plants for the November shows. *D. imperialis* is a kind that grows very large, sometimes ten or more feet high. It has bell shaped white flowers with a purple spot at the base of the florets.

Our hot summers and often very dry Septembers seem detrimental to the best development of the dahlia southwards, yet from New Jersey northwards, and especially as the lake regions are neared, some seasons produce them in a high degree of perfection in all sizes, forms and colors save blue. Dahlias make handsome beds pegged down and edged with some other composite flower such as marigold for instance in complementary colors. Everyone will make his own selection.

JAMES MACPHERSON.

Trenton, N. J.

Decorations at Washington.

One of the most elaborate feasts of the season was given by Secretary and Mrs. Hoke Smith, in honor of the President and Mrs. Cleveland. One noticeable feature of the decorations was the lack of the extravagant use of the large roses and profusion of carnations so commonly used in such decorations. Everything was light and graceful. The drawing rooms were decorated with palms, azaleas and ornamental plants. On the mantels were handsome cut glass vases filled with long-stemmed white roses. The table was laid for twenty. Down the center was a lake ten feet long by four feet wide; in the center of this lake was a rockery, the pockets being filled with growing ferns and small ornamental plants. Peeping through the foliage of these plants were a number of miniature incandescent lights. A heavy border of *Adiantum Farleyense* surrounded the lake, starred with one hundred red, white and blue electric lights, almost hidden in the foliage of the ferns. In the lake were plants of water hyacinths and *Eucharis* flowers, among which swam numerous gold and silver fish, producing a most pleasing and artistic effect. Some of the morning papers in describing this decoration said that to add to the pleasing effect there were a few ducks opposite the President's place for him to shoot at. A canopy of asparagus concealed the entire ceiling. These strings radiated from a large Maltese cross that was set with red, white and blue incandescent lights, representing the forty-five states in the union. The trailings of asparagus converged from this cross and

were caught at the mantels and draped over the mirrors, and were starred with red, white and blue globes. Suspended from the ceiling were a number of bird cages filled with singing canaries.

In the finger bowls was a frond of *Farleyense* with flowers of *Dendrobium nobile* and lily of the valley. Each lady was furnished a corsage bouquet of *Eucharis amazonica*, *dendrobium* and *Farleyense* ferns. The gentlemen's boutonnières were of *dendrobiums*. All doorways were portiered with asparagus, starred with miniature incandescent lights. The entire decoration was elaborate and beautiful. It was arranged by C. F. Hale.

REYNOLDS.

Orchids at Rochester.

That Mrs. W. S. Kimball's generous decision to maintain the magnificent collection of orchids intact and open to public view is appreciated is shown by the never ending flow of visitors. It keeps Geo. Savage constantly on the move, but he enjoys it as much as anyone.

Commenting on their several merits he is of opinion that whilst cattleyas have the pre-eminence from a commercial standpoint, there are several other kinds that can be made equally as profitable, particularly *angræcums* and *Dendrobium nobile* and *Wardianum*. *Cypripedium villosum* is far superior to insignie, better for cutting purposes, lasting twice as long and very free flowering. *Oncidium splendens* is one of the best of the oncidids. The flowers are large, borne on long spikes, color pure yellow. *Dendrobium nobile nobiliss* and *D. Wardianum*, the large flowering species, at present somewhat scarce, must become one of the most popular orchids for cutting. Some noble specimens of the kinds above mentioned are now in bloom and worth a long journey to see.

Without a doubt such institutions as these are the greatest educators of the horticultural age.

Mr. Savage has been confined to his house for several weeks with the grip, but is out again almost as cheerful as ever.

M.

New York.

Cut flower trade is exceedingly dull. Not only the general market, but the demand for everything, rarities and common grades alike, seems to have completely slumped. Last week during the warm spell the overstock was heavy, but under the influence of stormy weather since these conditions have improved somewhat, and while the demand amounts to nothing almost, yet the loss of stock is not so serious. The low temperature has kept the Greeks inside, and this big outlet for the surplus is for the time being discontinued. Prices have dropped to a lower point than for several months, and the bottom is not yet reached.

Louis Patterson, formerly of *Bebus & Patterson*, was run over and instantly killed on Monday evening, March 2.

Max Mosenthin died at his home in New Durham, N. J., on Thursday, March 3. The funeral on Friday was attended by a large number of the local florists.

The New York Florists' Club sent a beautiful box of flowers to the funeral services held on Monday evening for the late Adolph Ladenburg, who was lost at sea, as announced in last week's notes.

Millang & Wines is the name of a new wholesale cut flower firm which has started business at corner of Sixth avenue and West 30th street.



BAY NURSERY OF DE SMET BROS., GHENT, BELGIUM

Walter F. Sheridan will move on May 1 from West 30th street to 39 West 28th street.

G. W. Hillman, Jr., of the John Henderson Co. has been elected vice-president of the New York Cut Flower Co. in place of L. M. Noe, resigned.

Thorwald Jensen of Mamaroneck has a fine white sport from carnation Helen Keller, from which he expects great things.

Warendorff's "Prince Jim" secured the second prize at the cat show in Madison Square Garden.

The first may flowers and sweet peas are in the market.

O. J. Friedman of Chicago is in town.

Boston.

Cold and stormy weather has checked production sufficiently to overcome the danger of overstock, which last week seemed inevitable and conditions appear favorable for a maintenance of steady prices for a few days at least. There has been no serious disturbance of prevailing market rates on account of Lent, as yet, and with the exception of violets stock moves readily. Violets are very plentiful and the street peddlers are taking advantage of this, violets being their main stock in trade for the time being and their price at retail being no more than the regular stores are obliged to pay at wholesale. Lilies are coming in more abundantly and prices are low. Roman hyacinths and paper white narcissus are apparently about finished up for the season but they do not seem to be missed.

The retailers' windows are brilliant with hyacinths, tulips and daffodils. These showy blossoms are not in demand for cut-flower purposes as they once were but in pots singly or in pans of six or eight bulbs they find a good market and afford the owner of the moderate sized purse more color, fragrance and satisfaction generally than can be got in any other

way for the same amount. These flowering bulbs all come from Warren Ewell, who has an undisturbed monopoly of most of the bulb flower trade for Boston, and where the stock will not sell for its own sake, Warren's irresistible good nature comes to the rescue and undoubtedly while Warren is in the field bulbous stock is bound to sell. Out at his place in Dorchester the busy times are on and those who have only known the gentleman through his funny after-dinner speeches and entertaining sociability would hardly recognize him in working trim in the early morning hustle of the packing shed. The garden is one expanse of frames covered deeply with leaves and hay to protect the boxes and pans of bulbs from which the daily supply comes to keep the greenhouses full. In the houses now many thousands are in bloom making a gorgeous display. Up to date the varieties of tulips depended upon have been principally La Reine, Crimson King, Belle Alliance, Yellow Prince, Kaiser Kroon, Murillo and the early Duc van Thols. From now the later and better varieties such as Couleur Cardinal and Cottage Maid will be brought in and will command a better price. For daffodils Mr. Ewell recommends Princeps as the finest of the low-priced single varieties. For these as cut blooms together with Trumpet Major and Von Sion there has been a fairly steady demand. From a frame recently opened have been taken a quantity of pots and pans of promiscuous bulbs showing buds of incredible size. These are for the spring show at Horticultural Hall which will take place March 24 to 27.

The attendance of thirty members at the March meeting of the Gardeners' and Florists' Club on one of the most inclement nights of the season was conclusive proof of increasing interest in the organization and a good omen for the future. The president and vice president were both detained at home by sickness, and W. J.

Stewart acted as chairman. Amendments to the by-laws raising the cost of membership to \$3 and annual dues to \$3 were adopted, and considerable interesting discussion took place as to best means for increasing the attendance and interest in the meetings. Mr. Outram of England being present, was called upon for a few remarks. He told of the interest taken by his countrymen in the progress of American horticulture, which he said was phenomenal, our clear skies giving us an advantage in the winter months and enabling us to excel especially in florists' specialties. He deplored the lack of good all-round commercial novelties in the plant line, but in general the business prospects on the other side of the Atlantic are better than they have been for some years. Mr. Alfred Dimmock also said a few words in commendation of the increasing interest in orchids, which he noted more strongly on each succeeding visit to America. He said that there is no place in the United States where orchid growing is done so well as in the neighborhood of Boston. He predicted a great future for varieties specially useful for florists' cut flowers and believed the time was fast approaching when orchids will be as much of a necessity to every florist as are roses, carnations and violets.

On Saturday, February 29, Prof. Geo. F. Atkinson of Cornell University delivered a lecture in Horticultural Hall on "Some tendencies and problems in the evolution of species among parasitical fungi." There was a small but attractive exhibition of flowers on the tables including some handsome camellias and Himalayan rhododendrons from James Comley. The next lecture will be on March 14, when Wm. S. Egerton, Superintendent of Parks at Albany, will talk on "Ornamental planting for parks and public grounds."

Geo. A. Sutherland is receiving a quantity of *Acacia pubescens*. This fine old favorite retains its old popularity and

knows no rival. If it were more generally grown there would be a steady demand for it.

Paul Richwagen is one of the few Fisher growers left who still get satisfactory results from this locally favorite carnation. He is cutting a large quantity and the flowers are excellent. White carnations are good stock here just at present.

On mignonette Wm. Edgar has the market pretty well to himself. If there were kings among mignonette growers he would be fairly entitled to the distinction for this section.

A musical florist is a necessity to every Florists' Club and a valuable adjunct to every well-ordered community. Julius Zinn, at Newman & Sons, is the coming phenomenon in this neighborhood and his specialty is the mandolin.

"It never rains but it pours." Prospects are out for two new horticultural trade papers with the New England states for their field. The rivals are announced to appear this week.

Mrs. David Allan died on February 28 of consumption, aged 33 years. The funeral took place on Sunday and was attended by a large number of the craft.

Visiting Boston: Alfred Outram, representing Sutton & Sons, Reading, Eng.; Alfred Dimmock, representing Sander & Co., London; S. S. Skidelsky of M. Rice & Co., Philadelphia, and M. H. Walsh, Woods Holl, Mass.

Philadelphia.

March came in with a great bluster and blow, it was not so very cold but the keen biting wind which raised clouds of dust from the asphalt pavements kept shoppers at home, and business suffered accordingly. There is a great plenty of all kinds of stock except long Beauties, which are scarce. Anderson, Smith & Whitely, and Heacock are all cutting quite a lot of Bruuners, which seem to sell fairly well at from \$3 to \$5 per dozen, Beauties are to be had from \$1 to \$5 per dozen. The best teas are now \$8 per hundred, the smaller stock selling down to \$4. Carnations go mostly for \$1.50, \$2 being obtained with some difficulty for selected stock. Liliun Harrisii is plentiful at from \$6 to \$8. Tulips go slowly at \$3 and the growers say that the percentage of bulbs flowering is not up to the mark. Valley is overstocked and not as fine as it has been in previous years at this time; from \$2 to \$4 is the price. Violets sell for 50 to 75 cents and \$1 per hundred.

Azaleas, cinerarias, lilies, lilacs, hyacinths, daisies and begonias, about make up the list of plants seen in the store windows; there is not as much demand as there might be for this class of stock.

Easter plants are looking well and unless something unforeseen occurs there will be a fine assortment of well grown specimens with which to tempt the public. Mr. Harris has a particularly fine batch of lilies in all sizes, his genistas are also very good and the spiraea, duetzia, hydrangeas and other stock all looks very promising.

Robert Craig has a great many lilies in all sizes, his entire azalea crop is kept for Easter and will make a great show at that time. He also has a great quantity of tulips and hyacinths to be in at that time.

Jacob Becker has a good lot of very well grown lilies, and his stock of pot-grown roses will this season exceed anything he has ever had.

The March meeting and smoker of the Florists' Club held last Tuesday evening was a gala affair. The business of the

meeting was soon put through, the most important features of which were the report of the club room committee on the new quarters in Horticultural Hall, which are now in such a state of completion that prompt action was recommended so that they could be finished as was most desirable for the club. The space reserved is in one large room 41x69, this is to be fitted up in good style and when completed will be most complete in every respect. There is plenty of room for bowling alleys, pool tables, shuffle boards, shooting range, reading room and library. The paper for the next meeting will be read by John Gardiner of Conshohocken, the subject mushrooms. Mr. Gardiner has had considerable experience with this esculent and his paper will no doubt be a good one.

The business meeting being over the social features of the evening were ushered in, there was a large attendance by this time and a good time generally seemed to be enjoyed by all present. There was a violin solo by James Leslie, a dance by Alex Tulloch, a song by Jos. Ferguson. The Harris Bros. gave a German dialect sketch. Edmond Reid was heard from; the Battle of Killiecrankie was recited by Peter Miller, Signor Barilli sang an operatic selection. Hutchinson Dougall also gave a comic selection. Hillier & Smith contributed a song and dance, John Walker sang "Paradise Alley," John R. Cairns sang the "Golden Shore," Mr. Geo. Scouler gave a fine bass solo, R. Kift sang an original song about the members of the gun club, George McMillan sang a laughing song, Robert Craig favored the company with a song and he and Daniel D. L. Farson had a very entertaining tongue sparring exhibition. Each tried to present the other in what he considered his true light and the pictures they painted of each other were certainly wonderful. All those who took part in the entertainment were very good, Messrs. Scouler, Barilli and Dougall compelling encores.

There were pipes and tobacco in abundance, while sandwiches, lemonade, punch, and other refreshments were passed around during intervals. Messrs. Watson and Westcott and the house committee deserved a great deal of credit for the way in which they prepared the feasts both for the intellectual and the inner man. Ernst Asmus was in town for a day or two looking for novelties.

K.

Chicago.

Business is still quiet locally, though some large shipping orders are being filled in some lines. There is a great deal of stock coming in. The only line which shows any shortage is high-class Beauties, there being a preponderance of short-stemmed flowers. All the other roses show a drop in price; only the very best selected stock brings \$5, \$3 to \$4 being the average. Carnations are very plentiful, and good stock only brings 75 cents to \$1.25, fancy grown being \$1.25 to \$1.50. Some extra fancy varieties bring \$2, such as Rose Queen, and some very fine Buttercup grown by Stielow. The same grower is also cutting fine Helen Keller, which bring this price. Some blooms of Jubilee sent by Hill & Co. for exhibition at the Kennicott Company's would also bring this easily, but these cannot be quoted as regularly in the market.

Bulb stock is slow. Daffodils are still very languid, and their sale is not aided by the southern flowers, daffodils and jonquils, double and single, now being sent in. Tulips are poor, and poor sellers,

but honorable exception must be made in favor of Klehm's pink La Reine, which have been this season, as last, the finest tulips sent in to our market. As proof of this mention may be made of the fact that some of these flowers have been shipped to Thorley of New York, being received by him with the warmest commendation. Mr. Klehm is also picking very fine violets. Violets are now bringing 75 cents—early in the season, when we got poor little gnarled blossoms with a sage green complexion they brought \$2.

White flowers were much in demand the latter part of the week, owing to some very big funeral orders. This special line is about the most active part of the business now.

Mr. M. Stauch has returned from his European trip and has taken a position with the M. A. Hunt establishment at Terre Haute, Ind.

Otto Holinger, for some years superintendent of Douglas Monument Park and designer of the park, died February 13.

Mr. J. A. Pettigrew was in the city last Saturday and left on the Sunday afternoon train for Brooklyn, N. Y., where he is now installed as general superintendent of the parks of that city.

Henry Ives Cobb is arranging details of the plans for the new buildings for the botanical department of the University of Chicago. The new buildings, four in number, will cost \$400,000, and will be arranged in the form of a quadrangle joined by an arcade. Work will be commenced on the buildings in May and pushed as rapidly as possible. Prof. Coulter, the new head professor of the botanical department at the university, has incorporated many new ideas in the plans, and will have the finest equipment in the country for the building.

On January 7 Rowe & Burkhardt purchased the retail business formerly owned by H. H. Hilton at corner of Jackson boulevard and Ogden avenue. They have made extensive improvements and now have an excellent store. They report business as very satisfactory. Mr. Rowe was with Mr. Hilton during the World's Fair year and later was manager for Mr. H. C. Stenger on West Madison street.

Mr. Wm. Plumb of Oyster Bay, N. Y., was a recent caller. Mr. Plumb is visiting a daughter at Desplaines.

Visiting Chicago: E. Corbin, Grand Island, Neb.

Rochester, N. Y.

This week's trade may be reported as greatly improved, not only in the sales of cut flowers of every description but also in plant decorations on various occasions. Our principal stores did a fair amount of business and have orders ahead for a number of events which are to take place within the next week. Still all flowers are rather plenty, with the possible exception of carnations, these are generally sold as they come in, and for some time past not a single flower was carried over night. Roses are bringing better prices than they did last year at any time in Lent and are of good quality, but figures for other stuff suffered a decided lowering. Violets are plentiful, Californias especially so. The demand for the latter has decreased lately. Tulips and daffodils move very slow at wholesale, most of our storemen have an ample supply from their own greenhouses to meet the ordinary demand. Good sales however are made in bulbous stuff grown in pots and small flats, tulips of all the leading colors, hyacinths in variety and double and single daffodils are considered as decidedly appropriate for



VIEW IN THE STORE OF MESSRS. SIEBRECHT & WADLEY, NEW YORK.

daily parlor or table decoration, lasting much longer in perfection than the cut flowers would and the difference in price is not objectionable in most cases.

Mr. Geo. Savage is not only known as an expert orchid grower, but can manage other plants equally well; his violets for instance are a grand sight and have been so for months back; notwithstanding the almost daily pickings of many hundreds the plants are always covered with bloom, and as he ventilates regularly every day, the air in the entire neighborhood is filled with their fragrance, so that passers-by linger here to enjoy the gratis distribution of perfumery. He still sticks to the old rose *La France*, and grows these to perfection, better than anybody else in this section. They don't stop blooming with him at any time, but are just now sending up new vigorous breaks which will bring out great big blooms for Easter. We are glad to see him entirely recovered from his late illness, and at his usual post among his beloved posies again.

The old firm of Keller Sons has at last concluded to leave their little old store, which they have occupied for so many years, and will remove to more spacious quarters close by the old stand, corner North Clinton and Division streets, where they will be able to spread out a little more. The new store is to be fitted with all modern improvements, and a week or ten days more will see the old firm installed and ready for business in their new quarters.

In my last report I should have mentioned the several fancy varieties of *Dendrobium nobile* in full bloom at the Kimball private greenhouses. One medium-sized piece of *D. n. nobiliss* in a 7-inch pan is remarkably well flowered, being literally covered with a mass of bright deep colored large flowers, the number of flowers being estimated by one of the frequent visitors, a florist from a neighboring town, at between five and six thousand. It is to the credit of Mr. Geo. Savage, the superintendent, that he always succeeds in not only blooming his dendrobes so well, but also in bringing out the deepest colors in them to perfection, but we have to take into consideration that he takes special care of these fancy varieties, and being under his own super-

vision no one else is allowed to water or in any way handle such plants as he may take a fancy to and set aside for his own private amusement. A very fit companion to this beautiful piece is a magnificent pan of the true *D. n. Sanderianum*, probably the largest plant of the variety in this country, the bright coloring is brought out more vivid and is probably intensified by the almost pure white base of the petals, it is rather a stronger grower than the first mentioned, forming longer and stouter canes although the individual flowers are a trifle smaller. *D. nobile Cooksonianum* also is represented in good specimens well covered with bloom; the center part of the petals are of a very deep color and have a velvety appearance and the flowers are very large. *D. n. elegans* also is larger than the ordinary type and the petals are pure white at the base, flushed gradually toward the edges with an increasing deep rosy purple and the lip in front of the velvety maroon blotch is of a distinct pale sulphur color. *D. n. Schneiderianum* resembles the last mentioned in the sulphur yellow shadings of the lip, but has a blotch of a more decidedly deep purple color instead of maroon and is a truly handsome variety. *D. n. Tollianum* has irregular purple striped and blotched petals on a lighter ground and is a grand variety as seen here. All the above varieties along with a few other rare species, Mr. Savage considers his special pets and no one is allowed to in any way interfere with them, he administers to their wants personally, but says that only ordinary common sense care is given to them, such as all dendrobes should have, and the only point to guard against is not to let them get on the dry side at any time while growing and after growth is completed to give them a cool rest. His *Wardianums* he treats in the same manner and a number of large pans of these are noteworthy for their long well-flowered canes. One extra sized specimen, labeled *D. W. giganteum*, is really extraordinary for its long, stout and more upright growth and the immense size of its individual flowers, measuring over four inches across, and seemingly of a better substance, fleshier and thicker in texture than the ordinary form. In the large collection of cypripediums many of the newer and rare species

and varieties count among Mr. Savage's special pets to which he devotes his time and attention with invariable success.

J. B. K.

New York Store of Siebrecht & Wadley.

Our illustration shows the interior arrangement of Messrs. Siebrecht & Wadley's store at 409 Fifth avenue, New York. The view is taken looking from the back towards the entrance. In the rear of the establishment is a large conservatory filled with palms and other decorative plants, also a large yard, packing sheds, etc., which affords one of the most convenient establishments for the transaction of an extensive business in this crowded section of the metropolis.

St. Louis.

The weather for the past week has been exceptionally warm for this season of the year, but it does not bring much comfort to the wholesalers and their friends the growers. The demand has been very light, and prices have gone down. The fakir is with us again, and every available street corner in the downtown district is adorned by him; he seems to be a great help to some of the commission men to take the second class stock, but by the legitimate florist he is regarded as a great nuisance. Flowers of all kinds are plentiful, and in my rounds to the commission houses I found them all stocked up to the brim, and flowers can be bought at the buyer's price. The cut flower trade is about up to the average for the second week of Lent. White flowers were in brisk demand, several large funerals causing this.

In roses good stock, all kinds, brings from \$4 to \$6; poorer grade go as low as \$2. Beauties, extra good blooms, remain scarce; the only real good Beauties in town come from Tesson's and bring 50 cents each. In carnations there was a great glut last week, especially in red. The white sold well, also Scott and Day-break. The last two have the call at all times. Prices range from \$1 to \$2.50, the latter price for extra fine blooms. Bulbous stock is very plentiful. Tulips of all kinds are fine, but find a slow sale; \$2 to \$4 are the top figures. Valley, hyacinths and daffs are the same as quoted last week. Harrisii is low down and sell at \$4 to \$6. Violets have taken a great tumble in price, and every commission house is loaded down with them. Home grown were sold as low as 12½ cents per hundred. Double violets go at 35 cents, southern very few sold.

Recent visitors were Martin Renkauf, representing H. Bayersdorfer & Co., Philadelphia, and J. M. Gasser of Cleveland, O., who spent a few days in the city on his way south for his health.

Thomas Carroll has a new white carnation seedling he calls Snow-drift; it is a cross between McGowan and Scott. Mr. C. claims it is one of the earliest bloomers, and from its appearance I think Tom has a prize winner.

E. H. Michel had a carnation exhibit at his store on Wednesday afternoon, March 4.

At the Bowling Club Monday night some very high scores were made. Martin Reukauf attended and rolled with the boys. The highest three games rolled were made by D. Helwig, 632; F. C. Weber, 613; J. J. Beneke, 567. The first single score was made by D. Helwig, 247; second F. C. Weber, 216. Kunz, J. Young and Beneke were tied for third place with 194. Fleckenstein and Michel had a

great time trying to outbowl each other. Fleck. came out on top, with a score in three games of 336, Michel 316, but in poodles Michel won, he making only 3 and Fleck. 7. The attendance was large, only two members being absent. Next Monday we will have a prize bowling match. Every member should be present.

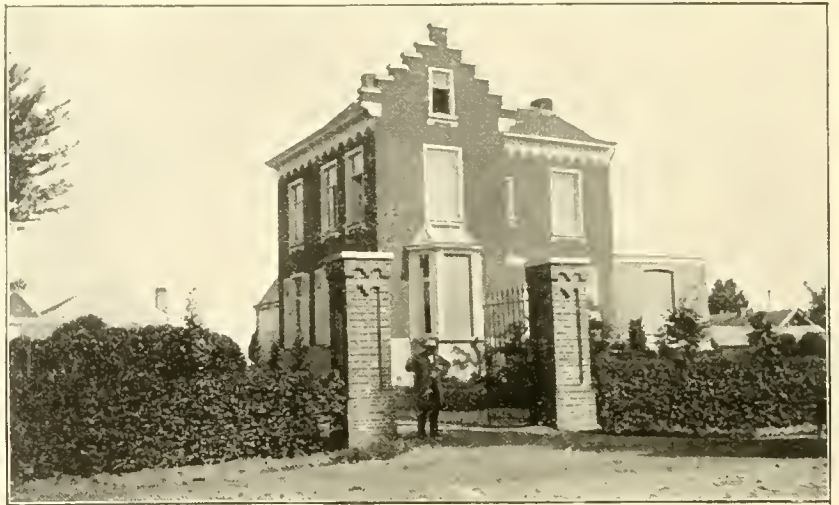
J. J. B.

Pittsburg.

The new propagating and growing houses at Schenley Park although not entirely finished are far enough advanced to have eight of them in use. When finished they will consist of eleven houses covering 364x118 feet and will permit the growing of anything in the line of floriculture; these are erected by the city of Pittsburg. Mr. Phipps has made a donation of a large addition to the Phipps conservatories, to be built in the rear of them and in front of the propagating houses; the connecting house by which you enter from the palm house of the present conservatory, will be 100x60 feet with two wings 84x28 each about 40 feet from the entrance, thus forming a cross. Messrs. Lord & Burnham have the contract to erect these and they will begin to build early in the spring; when all are completed, the conservatories will be used for exhibition purposes only, and it is expected that these will be much more elaborate even than they have been. Mr. Joe Spring, in charge now, has everything well under way for the show at Easter; there will then be many flowering shrubs as well as flowers to see, one among the many is clematis in twenty varieties and about 1,000 plants, these with lilacs, in six varieties, plums, cherries, currants, spiræas, deutzias, roses, etc., cinerarias, cyclamens and with the thirty-five thousand bulbous plants in flower, the expectation of the late Mr. Bennett that this Easter exhibition would far surpass those heretofore given will be realized and that the thirty odd thousand dollar investment in the propagating houses was what was needed to have an exhibit all the year round that would be really first-class and instructive, giving the citizens valuable returns for the investment.

Messrs. J. F. Gibbs & Son, growers of cut flowers at Woodville, about ten miles out from the city, have a very complete place. They have ten houses covering about 14,000 feet and have their own gas well on the premises, which ensures them an abundant supply of the ideal fuel. Three of the houses are devoted to violets, the rest to carnations, roses, smilax and bulbs in season. They are very successful growers, especially with carnations and roses. Mrs. Gibbs is a valuable addition to the firm and manages their stand in the Allegheny market so as to make many friends and yet get a goodly share of any business going. Last season they had to increase the size of their place and expect to add several more houses this summer also.

The Florist's Club held its regular meeting on Thursday, 27th ult. for the first time in their new quarters in G. A. R. hall corner Federal and Lacock streets, Allegheny City. There was a large attendance and all were very well satisfied with the room, it is well furnished and we were not annoyed with the noise of passing trains, which was the great detriment in our former quarters in Maginn's Hall. It is to be hoped that now that the club has a first class place to meet in, the members will attend regularly, lending a helping hand (and mouth) to make the meetings interesting



ENTRANCE TO C. PETRICK'S ESTABLISHMENT, GHENT, BELGIUM.

and profitable. Two new members were elected to membership, viz. Mr. Louis Schmitt, who is a very able employee of Mr. John L. Wyland, and Mr. T. P. Langhans, who has recently engaged with Mr. Gustave Ludwig, florist in Allegheny market; it is expected that both will prove valuable recruits. One name was handed in for membership to be acted on at next meeting.

Mr. Julius Ludwig furnished for inspection large bunches of Bride, Bridesmaid and Souv. de Wootton roses, and carnation Mrs. Hoffmeyer, a yellow tipped with scarlet, flower very large and fragrant, the roses were equally as good, and all were universally admired and reflected great credit on the grower, Mr. Chas. Hoffmeyer of Carnegie, Pa. Mr. M. C. Dunlevy also of Carnegie exhibited blooms of a new carnation grown by him, it is a sport from the E. A. Wood, and similar in color and form to Daybreak, although of a different habit; it is a good grower, long stemmed, blooms large and fragrance good; the opinion of the members is that it is a good one.

The committee having in charge the engrossing of the memorial resolutions of Mr. Bennett brought them to the meeting for inspection, they are a remarkably fine specimen of artistic pen work, affording the club great satisfaction and will be given to Mrs. Bennett without delay. Credit is due to the proprietor of Duff's College (where the work was done) and to Mr. White the artist, for the extracare taken with them; for being great admirers of Mr. Bennett themselves, esteemed it a privilege to do the engrossing and gave expression to their feelings in the beautiful artistic production embellished with flowers and vines.

After adjournment the club went to a nearby hostelry for the social pastime arranged for by the committee, where with speeches, stories, "flow of soul," etc. the thirty, (I had almost written thirty) odd members enjoyed themselves thoroughly until near midnight. The next social will be held on the fourth Thursday of this month.

The trade has been fairly good for this season, one or two days very good, prices about the same as last week for all stock but lilies, Harrisii being offered at 50 cents per dozen in the Allegheny market and slow sale at that.

Mr. Archie Elliott has associated himself with Mr. McGinness under firm name of Elliott & McGinness and have suc-

ceeded the B. A. Elliott Co. at 54 Sixth street, in the florist and seed business, the old firm still retaining the nursery and greenhouses. They have the best wishes of many friends for their success, and being both energetic and young, they ought to command it. They say they have nothing to complain of so far, are getting their share of trade.

It is with pleasure I write that Mr. Wm. Falconer has re-considered his decision regarding the position of Superintendent of Parks here, Mr. Bigelow, Director of Public Works, having received a telegram from him accepting the position. It is very gratifying to have such an able man to succeed the late Mr. Bennett, and one whom every reader of the FLORIST knows by reputation as being pre-eminently fitted for the position. It is not known just when he will be here to assume charge, but it is surmised it will be in about ten days. REGIA.

Toronto.

Trade this week has been very fair, as although Lent makes itself felt by the cessation of social entertainments, etc., there have again been several large funerals which have kept things going at about the average pace. The weather, although still cold, has been more sunny, and this is bringing up the supply of roses more equal to the demand. There are some beauties to be seen in the store windows now. Spears & Muston have been sending in some magnificent Bridesmaids.

In my last week's notes concerning the meeting of the G. & F. Association I omitted to mention a calla in a 10-inch pot which was brought down by Mr. Frost; the plant, which was a large one, completely filling the pot, was said to be only 14 months from seed, appeared to be dwarf, very prolific, with flower scented and of good form.

Messrs. Simmers Bros. have just finished the improvements to one-half of their store, but great as is the increase of floor space, things are still crowded, and they will improve the other half next year. Business appeared to be very lively with them, mostly catalogue trade at present.

Arrangements with regard to the issue of a horticultural paper for the Dominion of Canada are rapidly progressing, and it is probable that the first number of "The Canadian Garden" will be out some time in April. The company's prospectus will be sent round in a few days. E.



BOTANIC GARDENS, BRUSSELS, BELGIUM

San Francisco.

The first week in Lent sees the trade in a very poor condition. Everything is quiet now, and consequently prices are very low and stock over plentiful with but very few exceptions. Violets are a decided drag on the market now and are likely to continue so for several weeks. The quantity of the California violets is very small now, showing that their season of blooming is drawing to a close, the dry weather we are having also shortening up the season. Roses are in good demand yet and the quantity coming in is nearly equal to the demand. Quite a lot of Duc Von Thol tulips are to be had now but everything in the bulbous line goes slowly with the exception of Harrisii. Good carnations are not over plentiful and some days they are quitescarce. Portias in particular are very poor. Some fine Scotts and Daybreak are to be had. These bring 35 per dozen.

Mr. John Carbone, who was so successful with chrysanthemums last fall, is now cutting some very fine roses. His other stock also is looking very fine.

Mr. Sidney Clack at Menlo Park reports trade as being very good especially in the plant line. A large force of men has recently been added so that everything is quite busy at present.

It is rumored that a new store is to be opened on Post street next week opposite John H. Sievers.

It becomes my sad duty this week to announce the death of Mrs. Edw. Parsons of San Jose, wife of Mr. Edw. Parsons the San Jose florist. She died very suddenly the other night, being sick only a short while. This was a great shock to Mr. Parsons and his large circle of friends who sympathize with him in his sad affliction. The deceased was a very estimable lady, a Miss Taber. They were married in Flushing, L. I., New York, several years ago, and came to California two years ago, when they settled in San Jose. The

trade wishes to express its heartfelt sympathy to Mr. Parsons.

Mr. Dan Driscoll of the Sunset Seed and Plant Co. has been seriously ill at his home for the last week. Dan never fully recovered from his late illness, but we hope to see him around soon again.

METEOR.

Los Angeles, Cal.

There have been seven new stores for the sale of cut flowers opened in this city since December 1 last.

B. F. Collins is operating two stores, his new one being located on Broadway, and business reported good in each.

The old reliable Central Park Floral Co., under the management of Mr. Eli Snyder, is more popular than ever. Their business last year increased over 30 per cent. over 1894. This firm handled at retail last year more than one million carnation blooms.

Mr. Wm. McMillan, Supt. Buffalo, N. Y., Parks, enjoyed a trip through the principal parks of our city recently with Supt. Meserve of this city. Mr. McMillan was pleased as well as surprised at some of the revelations in this "Land of Sunshine."

Elmo R. Meserve, Supt. of Parks, has tendered his resignation to the commissioners of parks. Mr. Meserve wishes to be relieved in order to devote his entire time to his private business, being largely interested in the Highland Park Floral Co. as well as some other enterprises. A strong pressure is being brought to bear upon him to reconsider his action and to remain at the head of the park system. There are plenty of aspirants for the position should it become vacant.

Capt. F. Edward Gray is cutting from 6,000 to 8,000 carnations daily from his field of carnations. How is that for mid-winter?

The nine parks embraced in the Los Angeles system are now the admiration

of the thousands of tourists who are thronging the city. Many of the trees including eucalyptus and acacias are now blooming. Shrubs such as laurestinus, escallonias, genistas, etc., together with over 100,000 annuals are in the same attractive condition. Then the roses, geraniums, verbenas, heliotropes and many others are always blooming. Is it any wonder this locality is so charming to those who flee from "Lands of snow to lands of sun."

President J. C. Harvey of the Los Angeles Botanical Society is pushing the formation of the botanical garden in Elysian Park. Already a good start has been made and many rare trees and plants are already established and making good growth. Mr. Harvey is an enthusiast and in his work is aided by a few of the members of the society. Would that more would show the same activity in the good work.

W.

A Heating Question.

I intend to build this summer a new greenhouse in addition to the four houses which I now have. The new house will be 20x100, walls three feet in ground of concrete and three feet above of lumber, except on the south side, where two feet of glass will be used. The roof will have the long span to the south and will use butted glass. There will be a path two feet wide against the walls and in the center one three feet wide. The bench will rest on brick piers, the timbers 6x6 inches and running parallel with the paths. On top of this will use 2-inch planks and will heat by hot water system, the main pipes running against the wall and return pipes under the benches.

Can some reader of the FLORIST suggest improvements on this plan? Would also like to know how many feet of 2 or 4-inch pipes should be used to keep the inside temperature to 50° when it is 10° below zero outside. The new house will be

devoted mainly to carnations. The house will run east and west, and will have double walls. TH. VAN DER MEULEN.

Dunkirk, N. Y.

OBITUARY.

MICHAEL FRANCIS GALLAGHER, for many years a prominent retail florist of Chicago, died February 29 from injuries received while alighting from a suburban train the night before.

As he stepped from the car to the platform the train started and at the same moment a gust of wind blew his hat from his head and rolled it along the platform. In attempting to catch it he slipped and fell between the car and the edge of the platform. The moving train almost crushed his life out before he finally fell to the ground, where the rear trucks of the last car passed over his legs below the knees. The injured man was taken to a hospital, but his injuries proved fatal and he died early the following morning.

"Frank" Gallagher, as he was familiarly known, was born in New York City, August 15, 1856, and until he came to Chicago, sixteen years ago, was employed in a fruit and flower store in the metropolis. In Chicago he first started a fruit stand near the old Board of Trade and later took half of the store where the business is now located, he conducting a business in fruit while the late James Farrell occupied the other half of the store as a florist. When Mr. Farrell moved away Mr. Gallagher took the whole store and combined both businesses. Later he dropped the fruit department and devoted all his space to flowers. He had the most attractive store in the city and did a large business.

He was active in political circles, was a member of many organizations and an early member of the Chicago Florists' Club and the Horticultural Society of Chicago. He was buried last Monday with military honors by the Seventh Regiment, I. N. G., of which he was quartermaster.

A widow and a daughter, aged 9 years, survive him.

The Gallagher Floral Co. is a corporation and Mr. Gallagher's death will probably make no change in the name or conduct of the business.

We are very sorry to have to announce the death of Mr. E. W. Bergstrom of Highland Park, Des Moines, Iowa, on March 2 of consumption. He was at one time manager of Cole's conservatory, also member of the firm of Rollinson & Bergstrom of this city. He was in the employ of the late M. A. Hunt when the latter was in business in Chicago. Returning to this city he engaged in business for himself, until about nine months ago, when ill health compelled him to give up active work.

He leaves a widow and two children to mourn his loss.

The funeral was under the auspices of the I. O. O. F. The Florists' Club sent a floral tribute and attended the services in a body. J. T. D. F.

Herbaceous Plant Notes.

A few words on the dividing and replanting of herbaceous plants may interest some of the readers of the FLORIST. Although with the majority of such plants the performance of this operation is very simple, and most any handy man on the place may be entrusted with the work. It is not plants like the achilleas, aconitum, œnotheras, myosotis, rud-

beckias, helianthus, pyrethrum, phloxes, etc., I shall have to say anything about but of those that have not the ability or inclination to develop roots so freely as the above. Take for instance Senecio pulcher, one of our most valuable summer and autumn flowering plants, and I am very much in doubt whether the average handy man would make a success of dividing a batch of these plants and have them live. This species is inclined to rot out in the center and requires renewal every few years. The best way to handle these old plants we found is to dig them up carefully and cut off the main long tap root close below the crowns, a number of small rootlets, which are very brittle, will be noticed all around the base of the crown and these must be preserved. The operation should be performed as early in spring as possible in order to give the plants a fair chance of making a vigorous growth before midsummer or their blooming time. If there is any room to spare in a nice sunny frame, it need not be a hotbed, though the latter is preferable, we pot the single crowns into 3 or 3½ inch pots and here they will root freely inside of two or three weeks, when they can safely be planted out in their permanent quarters. The dividing of this senecio at any other time in the year is very seldom crowned with success unless the weather be very favorable to root formation and the risk of losing the entire stock is avoided by attending to it early in spring.

Trollius of various kinds also succeed best when divided as soon as the ground opens up, the roots are very brittle and care should be exercised in preserving them. I advocate spring division for these things because in fall planted stock the combined action of frost and sun toward spring will cause heaving out even with a covering over the bed, and the result in most cases is a disastrous damage to and loss of plants, while early in the year before the plants have made any growth the risk of losing the plants is greatly reduced. They should be divided into single crowns and immediately replanted in their permanent place. A rich moist soil should be provided for them but not wet, their liability to rot in newly manured land is well known to all who grow trollius to any extent, and it is best not to spade in any fertilizer in a contemplated bed, later on when the plants have made a fair start and are growing freely a liberal top dressing will greatly be to their benefit.

Old clumps of delphiniums do not always divide to our satisfaction; especially is this the case with the finer light colored varieties, which do not seem to possess the same robust constitution of the more common darker sorts. As a rule they don't develop such a clump of roots and when we dig up a plant with eight or ten growths we find often only one main taproot and no possibility of getting more than two plants out of an expected half dozen. A sure way to increase such plants is to wait until the young growth is about three to four inches high and then take off the cuttings, which when taken with a heel will root as fast as a verbenas cutting. In this way we can save the old plant, which will break out again from the dormant eyes on the root stock and we also increase our stock.

Hesperis matronalis fl. pl., the double sweet rocket, wants dividing every second or third year. In many instances the center of the plant will be found entirely rotted out, the best way to treat such plants is to thoroughly clean them of all decayed matter and wash them out, then divide into single crowns, which should

be potted and placed in a frame, the same as recommended for senecio, before they can be planted in their permanent quarters. It is not the frost that causes the decaying of the center in these plants but the moisture which gathers on the decomposing foliage in fall and winter penetrates into the heart of the plants and ruins them. Removing the foliage in autumn will greatly reduce their liability to rot.

Leontopodium alpinum, if separated to single crowns will produce much larger and finer bracts and flower heads, but should be handled careful and replanted without delay, for new roots are formed soon after the snow disappears and these young roots must be preserved, otherwise the plants have a slim chance to endure our dry summers.

The beautiful Chelone Lyoni too is better potted up after dividing and placed in a frame for two or three weeks, many of them will only have a few sound roots attached, and there is danger of losing a large percentage of the divided plants should we undertake to plant them immediately in the open ground, but as soon as they have sent out a few roots in the pots they are safe to go out and will make vigorous growth the first season. If catananches have suffered from the cold and look dead, don't be alarmed, usually they come out all right and in good shape a little later on. Old stools of them may be divided safely in spring, still probably a better way is to raise them from seed, which if sown early in the season will produce blooming plants the first year.

Centranthus ruber (Valeriana) is subject to decay in the center, cleaning and dividing will be of great benefit to such affected plants, which otherwise would be in danger of being destroyed by the spread of the rot. This also will form good blooming plants the first season from seed, and this is undoubtedly the better way to increase the stock, but when a special well colored variety is to be propagated, seed cannot be relied on and division is the only way to multiply them.

Such things as Daphne Cneorum can only be cut up into smaller plants when old stools have been planted deep enough to allow the separate branches of them a chance to form roots, otherwise we seldom can divide an old plant into many separate pieces. If the plants are layered down in early spring, a good supply of young stock may be cut off the following spring, though by fall the roots may have formed I prefer to leave the stools undisturbed over winter, as there is less danger of losing a very large percentage of the spring transplanted stock compared with the fall planted. Root action is then very active, and any sprig with a few rootlets attached will have a decidedly better chance of living and growing out. Cuttings of the half ripened wood at any time of the year also will strike freely and where no large old plants are at hand this mode of propagation may have to be resorted to, though it is a very slow process.

Æthionema grandiflora seldom forms a spreading root stool which would divide readily and deep planting or hilling up must be practiced to increase the stock of these most charming free blooming plants. Their tendency to form new roots is not so strong as in the daphne, and the little branches to be layered should be notched in with a knife, a rather long slit being preferable. The young plants or layers when well rooted will be all the better by being potted up and placed in a frame, so as to get well established before

planting out. I always prefer potting off such things in the early spring months, because then a few weeks' attention will thoroughly establish them, while if taken off in summer or fall, far more trouble is experienced and a much longer space of time is needed by them in the formation of sufficient roots for the support of the weakly rooted plants.

Heuchera sanguinea, one of our most beautiful continuous blooming hardy plants, is easily divided, I only want to say about it that the plants not only look better but also flower more profusely when broken up to single crowns, and should be divided every second year. The older plants will become long and weak in the neck to some extent; by separating and deeper planting this is avoided and also gives new vigor to the individual crowns. There is a great future in store for this plant when better known not only as an herbaceous plant but also for forcing purposes. After New Years it may be put into gentle heat and will then readily respond to the treatment, producing long stems of its pretty flowers in profusion. Equally useful for cut flower purposes, the plants when in bloom would sell surely at Easter or any other time and in spring the potted plants will be in demand for bedding out as well as for veranda boxes and vases. The description of the plant was given last summer in my herbaceous plant notes.

The early flowering hardy primroses such as *P. veris* and *P. acaulis*, etc., also the auriculas, are better left undisturbed until after their flowering time, when they should be broken up into single crowns and replanted. Dividing them before they bloom will seriously interfere with the free production of large and perfect flowers and usually there is plenty of time to perform the operation after they are done blooming and before the hot and dry weather sets in. A little shading for a few days after planting will do no harm and in bright sunny weather serves to keep them from flagging. A thin layer of grass clippings from the lawn all over the ground is as effective as anything.

Rochester, N. Y. J. B. KELLER.

Greenhouse Building.

Madison, N. J., Walter Reid, 400 running feet of commercial houses. Hitchings & Co., builders.

West Hampton, N. Y., W. F. Jaeger, three carnation houses, each 18x100.

Mohegan, Conn., Wm. A. Cooke, greenhouse, 50x200; boiler house 32x34 and water tower 50 feet high.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Placard advts. not admitted under this head.

SITUATION WANTED—By a competent all round florist and gardener; 16 years' experience; age 31. First-class reference. W R, care Am. Florist.

SITUATION WANTED—In a commercial place, by a young man of 3½ years' experience. State wages with board. F. G. BEHLING, Y. M. C. A., Scranton, Pa.

SITUATION WANTED—By a gardener for all departments; can grow all kinds of specimen plants and fruits, and have taste for arranging. E. D. ILL., care Am. Florist.

SITUATION WANTED—As foreman, first-class grower cut flowers, plants, etc.; age 28, 15 years' experience, excellent testimonials. E. S. V., care American Florist.

SITUATION WANTED—In greenhouses or private place, single, age 27; can send best of references to any address; Illinois preferred. P. O. Box 881, Plattsmouth, Neb.

SITUATION WANTED—As foreman or manager; well up in all branches cut flower plants, decorating, etc.; age 28; first-class references. LOQUAT, care American Florist.

SITUATION WANTED—By a young American; 8 years of experience; a first-class potter and propagator; good references. Address FLORIST, West Grove, Chester Co., Pa.

SITUATION WANTED—German, 30 15 years' experience; good rose, palm and general stock grower; references from large establishments. Address FLORIST, 131 Hamilton St., East Orange, N. J.

SITUATION WANTED—By a single man, age 30 as assistant in commercial place; 15 years' experience, but only a short time in this country; state wages. G. S. SYEDLUND, Montgomery, Pa.

SITUATION WANTED—By young lady in flower store; five years' experience in retail and wholesale stores; competent to take entire charge of a store; best of references. H, care American Florist.

SITUATION WANTED—As foreman or manager by a successful rose grower and general plantsman; 19 years' experience, age 35 years, married; references given. Address A F, care American Florist.

SITUATION WANTED—As foreman in a commercial place; good cut flower and plant grower. Married. First-class references furnished from present employer. Address with full particulars, C M, Box 663, Knoxville, Tenn.

SITUATION WANTED—By a young man skilled in growing general greenhouse stock, soler and industries; 5 years' experience; permanent place preferable to high wages; east preferred. Address WESTERN, care American Florist.

SITUATION WANTED—By a practical all round Scotch florist; long experience in this and other countries. Single. Can furnish the best of references. State wages. Address J. H, No. 13 South Pond St., Newburyport, Mass.

SITUATION WANTED—By a practical cut flower grower, with 12 years' experience; thoroughly competent to take charge of a place; age 23; specialist in roses; state wages. Address L. H. WOOLCOTT, 62 Delaware Ave., Buffalo, N. Y.

SITUATION WANTED—By well experienced florist and gardener; American, eastern and western experience; nothing wanted but a first-class place, either private or commercial; first-class references. Address MICHAEL HICKEY, New London, Chester Co., Pa.

SITUATION WANTED—By a middle aged florist and gardener; no children; temperate; well experienced in every branch of horticulture, especially greenhouses. Good private place preferred. Best references from prominent employers. Address E M, care American Florist, Chicago.

SITUATION WANTED—As foreman in commercial florist's establishment; long experience and successful grower of all florists' stock; well known as one of the best rose, carnation, violet and chrysanthemum growers in the country; middle age; salary moderate. Address FLORIST, 24 Grand St., Waterbury, Conn.

SITUATION WANTED—By capable man as manager of large commercial place; graduate of Hort. College; 12 years' experience; formerly employed at the Wm. Rose Conservatory, Nutt, Mass.; at present with Bassett & Washburn; will be at liberty April 1st. Address H. KARLSON, care Bassett & Washburn, Hinsdale, Ill.

SITUATION WANTED—By a German florist, single, 40 years old, 20 years' experience in commercial floriculture; wants a place in a reliable catalogue house; understands the culture of roses for both purposes, decorative stuff, palms and ferns; propagation of hard and soft wood, decorating and designing. Address SCUM CUIQUE, care Am. Florist.

SITUATION WANTED—By good competent florist, 35 working foreman or assistant; commercial or private place. Graduated from a horticultural school in Sweden; 11 years' experience; 5 years from one of the leading rose establishments of America. Strictly temperate; energetic; single; age 27. Good references. Address 33 Savin Hill Ave., Dorchester, Mass.

SITUATION WANTED—By well educated, energetic German florist; 18 years' experience; good manager; first-class hedges, designer and all round grower. Have been employed at some of the best establishments of Germany, France and Switzerland. In this country 6 years; in present place 4 years. First-class references. Address R W, care American Florist.

WANTED—A first-class propagator for roses. Apply to BASSETT & WASHBURN, Hinsdale, Ill.

WANTED—A young man as assistant florist; give experience and reference. Address T C, care American Florist.

WANTED—A young man for general greenhouse work and to help in building a new plant, with board. J. E. FELTHOUSEN, Schenectady, N. Y.

WANTED—Young man experienced in house, table decorating and design work; answer with references, and state experience and wages expected. Box 98, Sta. F, Cleveland, O.

WANTED—An experienced first assistant for 10,000 feet glass, cut flowers and plants; wages \$20 per month and board. Address with particulars GEO. S. BELDING, Middletown, N. Y.

WANTED—One of "Solly's" books on "Bedding Designs, Colored Illustrations," either new or second hand; quote price. BENJ. J. PASSMORE, Swarthmore, Pa.

WANTED—Rose grower for commercial place, eight large houses; must have had long experience; state wages. Address SIEBRECHT & WADLEY, New Rochelle, N. Y.

WANTED—Two men of experience, unmarried, to grow roses and carnations; must have references and not afraid of work, also who want to stay at one place for two or three years. To go to California. Address CALIFORNIA, care American Florist.

WANTED—A working foreman for a nursery, to propagate and grow stock for park purposes; a married man preferred, as must live in house connected with nursery. Answer, giving experience, wages expected and references; must be temperate and of good character. Address Supt. of Kenev Park, box 553, Hartford, Conn.

FOR SALE—Fremont greenhouse. Business and location good. J. STAIKEY, North Bend, Neb.

FOR SALE OR RENT—Two even span greenhouses, connected, each 18x53, potting shed and sleeping room; new and well stocked; hot water, no competition. RETAIL FLORIST, care Am. Florist.

FOR RENT—Eleven greenhouses all heated by low pressure steam; this is a good chance for a man to go in business with a small capital; write, information free; location good. Address HENRY MOORE, McLemore Ave., Memphis, Tenn.

FOR SALE—Greenhouse property in a large city west of Chicago, 800 feet of glass, 8-room house, two horses, two wagons, \$3,000 worth of stock; ground rent \$5 per month; price \$5,000, one-half cash. Address BUSINESS, care Vaughan's Seed Store, Chicago.

FOR SALE—Cottage house, 7 rooms, with first-class repair, acre of prime land, center of lively town, 10,000 inhabitants, four railroads, 2½ miles from Boston; first-class opening for a florist of moderate means, no competition. Address MICHAEL RYAN, 22 Boylston St., Brockton, Mass.

FOR SALE—22 greenhouses and 5 acres land, about 1 acre under glass, with or without land and in good condition; houses filled with stock; will be sold at a bargain if taken at once, as I intend to go out of business. For information address P. J. DEUSTER, 948 Wisconsin St., Milwaukee, Wis.

FOR SALE—Fifteen greenhouses, five acres, dwelling, barns, completely equipped florist's establishment and business for sale; located in the 23rd ward, Flatbush, Brooklyn, N. Y. A fine opportunity to obtain an established business. Apply to HENRY W. SHERILL, 13 Willoughby St., Brooklyn, N. Y.

FOR SALE.

Eleven acres land containing a desirable building lot, two greenhouses (one new), one dwelling house, barn and established florist business of twenty-five years, with full stock bedding plants for this spring's trade; telephone and city water; in Anthony, R. I., 13 miles from Providence on Prov. Div. New England R. R.; Main street with electric railway. For particulars see or address

HENRY JOHNSON, Wauregan, Conn.

THE SACRIFICE OF THE SEASON.

The finest greenhouse plant for sale within an hour of New York. Consists of several large houses, dwelling house and numerous outbuildings; everything in good order. Abundance of water, fully stocked and amply supplied with hand tools, also wagons, horses and all necessities. Several acres of ground, allowing of expansion of business or of sub-division into building sites. Above property will be sold for a fraction of its value on easy terms, for special reasons, or will be leased to responsible parties. Anyone contemplating engaging in this business will lose the chance of their lives if they fail to communicate with the undersigned.

M. P. B., Room 85, 21 Maiden Lane, N. Y. City.

NEW CROP.

Gibson's Progressive Verbena Seed, an advance on all previous productions. Well grown specimen flowers of many of the kinds 1½ inches across and easily span a silver half dollar, and of the most intensely brilliant and varied colors. In fine mixture per trade pkt 25c; ¼ oz. 50c; per oz. \$3. White Plume, separate, per trade pkt. 50c; ¼ oz. 60c; per oz. \$4. Purple, with distinct white eye, per trade pkt. 30c. Trial pkt. 10c, either kind.

Petunia Cal. Giant, finest selection, per 1000 seeds 60c. Single colored, Breer's selected stock, per 1000 seeds 10c. **Scabiosa Snowball** (pure white) and mixed colors, per pkt. 2c; trade pkt. 25c. **Dwarf French**, gold striped Marikold, pkt. 5c; trade pkt. 25c. **Verbena**, stock plants, 3-in. including interest novelties, labelled, \$1; mixed \$3; from flats, labelled, \$2.50; mixed, \$2.

No disease. We grow the largest Verbenas known. Variegated, yellow, orange, bright field-grown, 3-in. 5 to 8 shoots, \$5; nice young plants, flats, \$2; rooted, \$1 per 100, \$8 per 1000. **Petunia plants**, Cal. Giants 60c per 100 (seed pan).

Good satisfaction guaranteed or money refunded. Address, cash with order please.

J. C. GIBSON, Woodbury, N. J.

Clematis paniculata , 1 ft., well rooted, ...	Per 100 smaller plants, ...
Cinnamon Vine , No. 1, \$15.00 per 1000.	No. 2, 10.00.
Rose Japanese Wichuriana , 2½-lb. pots	2 50
Hyacinthus candicans , No. 1, ...	2 50
Hemerocallis flava (Lemon Lily), ...	4 00
Thunbergii , similar, blooms later	6 00
Double Tiger Lily , No. 1, ...	2 00
Paeonias , 5000 roots, 100 best named sorts	
100 varieties, 1 of each, named	\$20.00
100 roots in 10 named varieties	15 00
100 roots named, my selection	50 00
20,000 Gladioli —Lemoine's Hybrids, 20 named sorts, ...	\$5.00 per 100
Lemoine's Hybrid, mixed sorts	4 00

Lists free. E. Y. TEAS, Irvington, Ind.

WANTED

475 CAROLINA POPLARS, fifteen feet high.

GEO. MAMEROW, 2595 N. W. 42d St., Chicago.

Buffalo.

Looking in upon President Wm. Scott I found that gentleman in the best of spirits notwithstanding the enforced bodily idleness necessitated by the recent accident he met with. He says it will be the longest vacation he has ever enjoyed and does not wish for another such.

He read with interest the reports of the Carnation Society meeting and regretted the essay he had prepared was not completed in time for the meeting. We shall have the benefit of his ideas in a future issue of the FLORIST.

His business has not suffered by his absence, being in charge of Mr. L. Nenbeck, who has been in Mr. Scott's employment many years as foreman. He has as usual a choice lot of Easter stock for which the demand will be, from present indications, as good as ever.

J. H. Rehstock is making a fine display at his downtown store.

W. Palmer, Sr., with D. B. Long, have returned from the cast full of carnation lore and promise to give at the club's annual election and banquet on the 10th inst., to which all visiting brethren are invited, an account of their experiences in the metropolis. M.

Worcester, Mass.

So far Lent has not interfered very much with trade and though flower sales have fallen off a little we have had enough funeral work to more than offset the loss.

Good flowers are herein abundance and variety; roses of very fine quality are coming in daily in large quantities and carnations seem better than ever. Daybreak especially is very good.

Bulbous stuff, of course, is plentiful, though not too much so and what is better still is A No. 1 in quality. Violets are abundant and good. Lange has a small crop of California that have done a little to justify this much abused variety.

Azaleas in pots have been having a ready sale. Prices are very fair.

E. O. Orpet of Lancaster gave a very interesting talk on "Chrysanthemum culture" at the winter meeting of the W. C. H. S., on Thursday, February 27, dealing with the subject in a way to interest the amateur.

Mr. Orpet, together with a few horticultural enthusiasts, enjoyed the hospitality of Mr. F. A. Blake at a pleasant luncheon, preceding Mr. Orpet's lecture.

A. H. L.

Trenton, N. J.

Mr. Wm. Moore has a metropolitan window. He is born to an appreciation of color proportion, it seems to me. To-day with a base of yellow and white he studs with scarlet, purple and pink, neither one overdone, nothing misplaced. It seems hopeless to teach these delicate touches to many. Harmony isn't given to everybody. J. MACP.

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Herr's Cold Storage Pansies—\$12.50 and \$15.00 per 1000; 50c extra per 100.

Coleus—Red and yellow, also twenty sorts of the finest fancy-leaved, at \$5.00 per 1000, or 75c per 100.

REPLANTED STOCK, in fine condition for potting;

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FROM careful personal inspection of all the new and old varieties in the famous pea growing districts in California, and from actual selling qualities shown in the San Francisco Flower Market—the largest in the world for this flower—we find the following seven kinds, for size, stems, prolific habits and other most desirable qualities unequalled. They comprise the leading salable clear colors which are always appreciated. Fill seven vases each with 100 sprays of these, and set them in a row in your window, and you need fear no competition in your trade on this flower.

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EMILY HENDERSON, best florists' white.

COUNTRESS OF RADNOR, soft lavender.

MRS. ECKFORD, largest good yellow.

BLANCHE FERRY, early pink and white.

PRICES.

1 ounce each, 7 ounces, postpaid, 35 cts.

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1-4 pound each (1/4 lbs.), postpaid, \$1.00.

YOUR CHOICE, prepaid, ounce 5 cts., 1-4 lb. 20 cts.; 1 lb. 50 cts.

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Young Rose Plants.

In 2½-inch pots, ready about March 1st.

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Strong pot-grown stock of the
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Other planting stock, cuttings, etc., in variety.

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WISCONSIN FLOWER EXCHANGE, CUT FLOWERS.
Correct prices, choice quality, prompt service:

2500 BRIDES and MAIDS.....	} Bargains.
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Two years, all large flowering, choice named, leading kinds.....\$2.50 \$20.00
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Pæonies, named in 10 choice sorts.....1.25 8.00
Daisies, Dbl. Eng. Snowcrest, Snowflake .50 2.00
Smilax, strong plants, one year......50 3.00

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No reduction made for large space.

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wares pertaining to those lines ONLY. Please to
remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to se-
cure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

THE EMBARGO on imports from Japan
has at last been removed, but the removal
comes too late to be of much value so far
as the present season is concerned.

PHOTOGRAPHS of the chrysanthemum
exhibition at Davenport, Ia., last Novem-
ber, recently received, show that the Tri-
City Club had an excellent display of
really good plants and flowers.

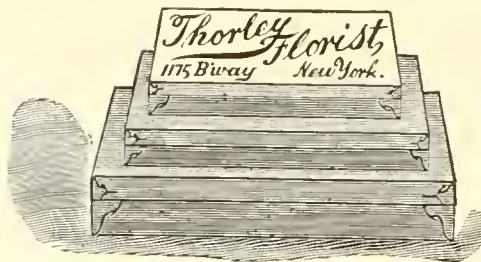
G. M. P.—The cinnamon vine is usually
considered hardy but the temperature you
mention is extremely rigorous. The roots
bury themselves deeper every year and well
established plants will naturally prove
most completely hardy.

THE SPRAYING OF PLANTS, by E. G.
Lodeman, instructor in horticulture at
Cornell University, is a recent issue in the
Rural Science Series. It contains chapters
on materials and formulas used in spray-
ing, devices and machinery, the action of
insecticides and fungicides, etc., and will
be found of value to florists, as well as to
the outdoor horticulturists for whom it is
specially designed. (Macmillan & Co.,
New York. Price \$1.00.)

MR. WILLIAM FALCONER, for many
years superintendent of the Dosoris Gar-
dens, the country place of Mr. C. A. Dana
at Glen Cove, N. Y., for several years a
valued correspondent of the FLORIST and
later editor of *Gardening*, has resigned
his position at Dosoris, and has been
appointed superintendent of Schenley
Park, Pittsburgh. Certainly no more
thoroughly able man could have been
selected. His knowledge of horticulture
in all its aspects is of the broadest and
that he will make the Pittsburgh park a
model American public garden goes with-
out saying. We extend our hearty con-
gratulations to the city of Pittsburgh.

THE city of Brooklyn, N. Y., is to be
warmly congratulated upon having
secured Mr. J. A. Pettigrew as its General
Superintendent of Parks. His knowledge
of horticulture is remarkably broad and
this is happily combined with excellent
administrative ability. His ideals are
high and he is at the same time intensely
practical. His natural modesty and quiet
manner makes necessary something more
than a casual acquaintance before his
attainments are fully appreciated, but to
those who know him well he represents
the very best thought in American horti-
culture to-day, and we rejoice that he will
again have a position in which he will
have opportunity to do himself justice
and thereby further dignify and uplift the
profession of which he is so able an ex-
ponent.

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SPECIAL SPRING
NUMBER
TO BE ISSUED
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the market. They are made from
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moisture, thereby keeping the flow-
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shape.

**THE NEW YORK
CUT FLOWER CO.,**

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112 and 114 W. 24th Street,

**IS NOW
OPEN FOR BUSINESS.**
The Largest Dealers in
**CUT FLOWERS
IN THE WORLD.**

Handling flowers of all kinds in quantity
we are in a position to fill shipping orders
promptly. We shall give careful attention
to this branch of the business, and solicit
your patronage.

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FLORISTS**
**JOEBERS IN
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SUPPLIES,
FLORISTS'
VASES.**
METS,
BRIDES,
GONTIERS,
CARNATIONS,
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SEEDS, BULBS AND ALL
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Reinberg Bros. WHOLESALE CUT FLOWERS, 51 WABASH AVENUE, Telephone Main 4937. CHICAGO. Our Roses best them all, in quality. Headquarters for fine American Beauties.

W. E. LYNCH, WHOLESALE CUT FLOWERS, Wire Designs a Specialty. 59 WABASH AVENUE, CHICAGO.

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We are prepared to fill orders—received by mail or telegram—for Cut Flowers, etc., to be delivered in Cincinnati and suburbs or nearby towns.

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Wholesale Markets.

Cut Flowers.

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Roses, Beauty, extra grades.....	10.00@40.00
" culls.....	3.00@ 5.00
" Niphetos Perle.....	2.00@ 4.00
" Cusin, Waterville.....	2.00 @ 4.00
" Bride, Bridesmaid.....	2.00@ 6.00
" Testouts.....	2.00@ 8.00
" Meteor, Morgan.....	2.00@ 8.00
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Carnations, ordinary.....	50¢ 1.00
" fancy.....	1.00@ 2.00
Violets.....	.25@ .50
Valley.....	1.00@ 2.00
Daffodils.....	1.00@ 1.50
Tulips.....	1.00@ 1.50
Freesia.....	1.00
Longiflorum, Harrisll.....	4.00@ 5.00
Mignonette.....	2.00@10.00
Lilac, per bunch.....	75¢1.00
Adiantum.....	1.00
Asparagus.....	50.00
Smilax.....	12.00@15.00

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" Perle, Hoste.....	4.00@ 8.00
" Bride, Bridesmaid, Mermet.....	6.00@15.00
" Meteor.....	5.00@12.00
" Beauty.....	10.00@50.00
" Brunner.....	50.00
Carnations.....	1.50@ 2.00
" fancy.....	2.00@ 3.00
Violets.....	.50@ .75
Valley.....	2.00@ 4.00
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Acaela pubescens.....	16.00
Romans.....	1.00@ 2.10
Freesia.....	2.00@ 3.00
Daffodils double.....	1.00@ 2.10
" single.....	1.00
Marguerites.....	2.00@ 4.00
Mignonette.....	1.00
Cypripedium.....	12.00
Adiantum.....	1.00
Smilax.....	15.00
Asparagus.....	50.00

PHILADELPHIA, Mar. 4.	
Roses, Beauties.....	8.00@40.00
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" Lains.....	20.00@25.00
" best selected teas.....	8.00
" seconds and small stock.....	4.00
" Morgan.....	10.00@12.00
Carnations, general stock.....	1.10@ 1.50
" selected and choice kinds.....	2.00
Harrisll.....	6.00@ 8.00
Valley.....	2.00@ 4.00
Romans and Paper White.....	2.00@ 3.00
Tulips.....	3.00
Violets.....	.50@ 1.00
Mignonette.....	2.00@ 3.00
Freesia.....	1.00@ 2.00
Smilax.....	15.00@30.00
Asparagus.....	50.00
Maidehair.....	1.00

CHICAGO, Mar.	
Roses, Beauties.....	25.00@40.00
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" Perle, Morgan, Siebrecht.....	2.00@ 3.00
" Bride, Bridesmaid.....	3.00@ 4.00
" Meteors.....	3.00@ 5.00
" Testout.....	4.00@ 5.00
Carnations.....	1.50@ 1.25
" fancy.....	1.25@ 1.50
Harrisll, callas.....	6.00@ 8.00
Valley.....	3.00
Violets.....	.35@ .75
Roman hyacinths.....	2.00@ 3.00
Narcissus.....	2.00@ 3.00
Ilyacinths, Dutch.....	4.00@ 6.00
Narcissus Von Sion.....	2.00@ 3.00
Freesia.....	2.00
Smilax.....	12.50@15.00
Asparagus.....	50.00

ST. LOUIS, Mar. 5.	
Roses Beauties long.....	30.00@50.00
" select stock.....	5.00@ 7.00
" general stock.....	1.50@ 2.00
Carnations fancy.....	1.50@ 2.00
" ordinary.....	1.00
Valley.....	2.00@ 4.00
Harrisll.....	4.00@ 6.00
Callas.....	5.00@ 8.00
Romans.....	2.00
Daffodils double.....	2.00
" single.....	1.00
Tulips.....	3.00@ 4.00
Violets southern single.....	.10
" home grown.....	.15
" double.....	.50
Freelias.....	2.00
Smilax.....	12.00@15.00

BUFFALO, Mar. 4.	
Roses, Beauties.....	20.00@50.00
" Meteors.....	6.00@ 8.00
" Bridesmaid, Mermeta, Bride.....	6.00@ 7.00
" Cusin, Perle.....	5.00@ 6.00
Carnations, fancy.....	2.00@ 3.00
" common.....	1.00@ 1.50
" short.....	.75@ 1.00
Harrisll.....	10.00@12.50
Callas.....	8.00@10.00
Romans.....	3.00
Valley.....	4.00
Violets.....	.50@ .75
Tulips.....	3.00
Daffodils.....	3.00
Smilax.....	15.00@20.00

GEORGE A. SUTHERLAND, Successor to PECK & SUTHERLAND, Successors to WM. J. STEWART. Cut Flowers & Florists' Supplies WHOLESALE. 67 Bromfield St., BOSTON, MASS. New England Agent for the GREAT ANTIPEST.

John I. Raynor, 49 WEST 28th STREET, NEW YORK.

SPECIAL EXTRA STOCK OF
AM. BEAUTY, METEOR,
BRIDESMAID, BRIDE.

DISBUDDED CARNATIONS.
FANCY GRADE.

Finest MIGNONETTE in the world.

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WALTER F. SHERIDAN, WHOLESALE FLORIST 32 West 30th Street, NEW YORK.

Roses Shipped to all points. Price list on application.

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Careful Shipping to all parts of the country.
Price list on application.

Purdy & Blauvelt, WHOLESALE DEALERS IN CUT FLOWERS, 57 W. 30th St., NEW YORK.

JOHN YOUNG, FINE ROSES WHOLESALE, 51 West 28th St., NEW YORK.

FRANK MILLANG, CUT FLOWERS, WHOLESALE, COMMISSION, 408 E. 34th Street, NEW YORK.

THEO. ROEHRS, WHOLESALE FLORIST 111 WEST 30TH STREET, Established 1879. NEW YORK CITY.

JULIUS LANG, (Formerly with THEO. ROEHRS.) Commission Dealer in Cut Flowers, WHOLESALE, 53 West 30th St., NEW YORK CITY.

The Seed Trade.

AMERICAN SEED TRADE ASSOCIATION.

S. E. BRIGGS, Pres.; T. W. WOOD, 1st Vice-Pres.; ALEX. RODGERS, 2nd Vice-Pres.; A. L. DON, 114 Chambers St., New York, Sec'y and Treas. The fourteenth annual meeting will be held at Niagara Falls, N. Y., June 9 to 11, 1896.

VISITED CHICAGO: Henry A. Salzer, J. C. Robinson, S. H. Church.

CROCUS out of the ground in Kansas; peaches in bloom in Georgia; sowing lettuce and cabbage in the Ozarks; how is your mail trade?

NEW YORK—The seed trade awaits only better weather. All indications are for a fairly good trade. Dutch bulb men are here in large numbers; they quote prices on tulips even lower than last year. Visiting New York: Wm. Meggatt, S. F. Willard and E. B. Clark.

MRS. RICHARD FROTSCHER died at her home in New Orleans fifteen days after the demise of her late husband. This leaves the seed business of the late Mr. Frotscher in the hands of the daughter. Nothing has yet been done in regard to the management of it. It is very probable that the business will be offered for sale.

Government Seed Distribution.

PRESENT STATUS OF THE QUESTION FOR THIS SEASON.

On February 20 Mr. Willis of the House Committee on Agriculture, submitted the following report, to accompany Senate Resolution 43:

The Committee on Agriculture, to whom was referred the Senate Joint Resolution No. 43, submit the said resolution and recommend the adoption of same.

The committee believe that it is the desire of congress that the Secretary of Agriculture execute the law in the spirit in which it was enacted and are of the opinion that, notwithstanding the lateness of the season, it is still practicable for him to do so; that many (if not all) of the seeds, bulbs, etc., would be available for late spring or summer planting, and that, in some sections they would be in time for the regular spring seedling.

Referred to Committee of the Whole and ordered printed.

Catalogues Received.

Cushman Gladiolus Co., Euclid, Ohio, bulbs, plants and seeds; Van Zanten Bros., Hillegom, Holland, bulbs; Memphis Floral Co., Memphis, Tenn., plants and flowers at retail; Vilmorin-Andrieux & Cie, Paris, France, dahlias and cannas; Seawanhaka Greenhouses, Oyster Bay, N. Y., seeds and plants; Sunnyside Floral Nursery, Fayetteville, N. C., plants and shrubs; Wm. Preer, Columbus, Ga., chrysanthemums, cannas, etc.; W. Pfitzer, Stuttgart, Germany, seeds and plants; Webster Bros., Hamilton, Ont., florists'

stock; Wm. H. Harrison & Sons, Lebanon Springs, N. Y., nursery stock; J. P. William & Bro., Heneratgoda, Ceylon, tropical seeds; James Dell, Pittsburg, Pa., seeds, shrubs and trees.

Heating.

When I first put in steam several years ago I used two locomotive boilers running side by side, and they did their work very well. One of the boilers became played out, and I put in its place a return tubular boiler and connected them as before, the water level being practically the same in the two boilers. The work was done by a local steam fitting firm, and the new boiler generates steam all right, but it is impossible to return the condensed steam when there is two or three pounds pressure on. Last summer an expert steam fitter made some alterations, but the result is no better. Can any readers of the FLORIST enlighten me. I would be glad to furnish fuller details if necessary. DAVID CLIFFE.

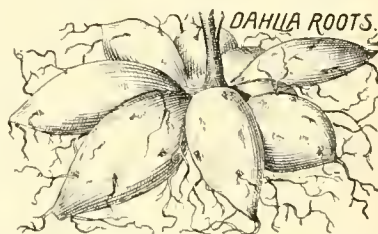
Germantown, Pa.

Shipping Plants.

A number of shippers have been using the official cut flower label on shipments of plants to insure prompt delivery, evidently overlooking the fact that such shipments of plants may be billed as cut flowers and thereby be made to pay full merchandise rate and barring the recipient from receiving the special rate accorded to plants. The difference between these two rates is a considerable item and shippers of plants should be careful not to use the cut flower label on this account. A label stating the contents are plants and of a perishable character would insure ample speed in delivery and at the same time reduce the rate of freight on such express shipments.

NORTHAMPTON, MASS.—Jas. A. Fitzgerald, gardener at the State Industrial School, has resigned and will take charge of the greenhouses and grounds at Smith College here.

DAHLIA ROOTS.



Named varieties such as *Nymphæa*, *Camellæflora*, *Donald Beaton*, *Emperor*, *Golden Bedder*, *Golden Queen*, *Golden Pearl*, *Guiding Star*, *Little Fred*, *Little Rifleman*, *Madge Wildfire*, *Miss Dodd*, *Mrs. Daniels*, *Snowball*, *Viola*, *White Dove* and a hundred or more equally good ones.

Strong roots, in perfect condition, uncalled for stock, \$8.00 per 100.

THE LOVETT CO., Little Silver, N. J.

Send Advs.
Now
For our
Special Spring
Number
To be issued
March 21.

SEEDS ... FOR THE ...
Garden and Farm
Vegetable and Flower Seeds. All the newest and best varieties—quality unsurpassed, Illustrated Catalogue FREE.
WEEBER & DON, Seed Merchants and Growers,
114 Chambers St., New York City.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Buy Seeds of **BURPEE**
Get the BEST and Save Money!

Write to-day for BURPEE'S BLUE LIST,—giving Wholesale Prices for Market Gardeners. Choice YELLOW DANVERS ONION at 75 CENTS PER POUND,—RED WETHERSFIELD at \$1.00 PER POUND.

Have you read BURPEE'S FARM ANNUAL FOR 1896? It is a handsome BOOK of 184 pages. Price 10 cents (less than cost), but mailed FREE to all who intend to purchase Seeds. WRITE TO-DAY! Do not delay. Address

W. ATLEE BURPEE & CO., PHILADELPHIA, PA.

PLANT & GROW
ONLY

ELLIOTT'S SEEDS.

Agents Wanted

by an important European seed and bulb growing firm, in the chief town of each of the principal states; must be acquainted with the trade. Address

D C, care American Florist.

NEW BRANCHING ASTERS.

VICK'S WHITE BRANCHING.....	per oz.	\$2.00
" PURPLE	"	1.50
" ROSE	"	1.50
" SEMPLE'S PINK.....	"	.75
ZIRNGIEBEL'S DOUBLE WHITE.....	"	1.50

Trade packet of any of the above, 25 cts., or the set of five varieties, one trade pkt. or each, \$1.00. Write for our Catalogue.

VICK & HILL CO., Rochester, N. Y.

We Print Catalogues

Illustrate them, write and mail them
We have many cuts, and are glad to make more.

J. Horace McFarland Co.

Horticultural Printers.

Harrisburg, Pa.

WE HANDLE ONLY

Seeds

that are especially grown for a critical Market Garden and Florists' trade. There are tons of seeds grown to sell cheap. You don't want them if your living or your satisfaction in life depends on the result. In our

GARDEN AND FARM ANNUAL FOR 1896

you will notice the illustrations are from direct photographs. They stand for Truth and Honesty and Honest Seeds back them up at Honest Prices. It is full of meat, written for business and to business buyers it is sent free. We also issue a Wholesale Quarterly for Market Gardeners and Florists.

JOHNSON & STOKES, 217 & 219 Market Street,
PHILADELPHIA.



N. DAMES,
OF THE FIRM

Van der Horst & Dames,

(Formerly G. VAN DER HORST & CO.)

BULB GROWERS,

Heemstede, Lisse, Holland,

is on his round trip in America. To save time, we beg to address all letters up to April 20, care of Knauth, Nachod & Kuhne, 13 William St., New York. Our motto is "Fine stuff makes cheap prices." Our dealings in America is increasing every year. Write at once for quotations. *Yours truly,* **N. DAMES,**
OF VAN DER HORST & DAMES.

ASTER SEED.

This, and first part of next month is the time to sow seed for outdoor blooms of the celebrated strain of **Simple's Asters**; endorsed by the leading florists all over the country, either for indoor or outdoor blooming.

Largest flowers, exquisite color, Pink, White and Lavender, mixed seed (separate colors all sold) always a seller.

NO EQUAL in the market. Seed all grown in '95. Stock limited now. Order soon from

JAMES SEMPLE, Box 2, BELLEVUE P. O., PA.

NORTHRUP, BRASLAN, GOODWIN CO.

Being **GROWERS** we are in a position to supply **Seeds of First-Class Quality** and to make **specialty low prices**. A trial will convince those who have not yet found this out.

NORTHRUP, BRASLAN, GOODWIN CO.

20 to 28 Hennepin Ave., MINNEAPOLIS, MINN.

65, 67 & 69 N. Jefferson St., CHICAGO.

**WE ARE HEADQUARTERS ON
BULBS FOR FORCING,
FLOWER SEEDS FOR FLORISTS
ENGLISH MUSHROOM SPAWN.**

Special prices on application.

**JOHN GARDINER & CO., Seedsmen,
631 Market St., Philadelphia, Pa.**

EXTRA CHOICE FLOWER SEEDS.
List free on application.

**FRED. ROEMER, SEED GROWER,
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PLEASE mention the AMERICAN FLORIST
every time you write to an advertiser.

**WRITE TO
R. & J. Farquhar & Co.
SEEDSMEN,**

16 & 19 S. Market St., BOSTON, MASS.

If you want **THE VERY BEST.**

SEEDS, Bulbs, Nonpareil Paper Pots,

Home-made Mushroom Spawn, etc.

CATALOGUE FREE.

Try VAN ZONNEVELD BROS. & CO.'S

SASSENHEIM, HOLLAND,

Hyacinths, Tulips, Crocus, Daffodils, and
other bulbs.

They are strictly first-class and cheap. Special quotations for wholesale importers.

Address all correspondence until May 1st to

**W. VAN ZONNEVELD,
care J. W. Hampton, Jr. & Co., 41 Broadway, New York.**



Centaurea Margaret.

A VERY handsome plant which grows about 18 inches high, and produces large pure white flowers (our illustration represents one in natural size), of the sweetest fragrance. Being produced on long, stiff stems, the flowers are most admirably adapted for bouquets, vases etc., especially since they keep in good condition for a week after being cut. It is as easily grown as a Bachelor's Button. Pkt. (200 seeds) 25 cts; 1/4 oz., \$1.00.

FLORISTS' FLOWER SEEDS.

All the latest novelties and standard varieties described and priced in Vaughan's Book for Florists, sent free to Florists.

VAUGHAN'S SEED STORE,

NEW YORK:

26 Barclay St.

CHICAGO:

P. O. Box 688

Choicest Florists' Seeds

And a full line of **Spring Bulbs**, offered in our New 1896 Trade List, free on application.

Florists' Supplies

In largest assortment and best quality.
Illustrated Wholesale List free.

August Rölker & Sons

136-138 W. 24th St., New York.

Mammoth Verbenas.

New, large-flowered, very fine quality.

Per Ounce, \$1.50.

CHOICE FLOWER SEEDS For Florists.

Price List free on application.

HERRMANN'S SEED STORE,

413 E. 34TH STREET,

Near Long Island Ferry, NEW YORK.

WATSON'S ENGLISH MUSHROOM SPAWN



Unsurpassed in quality, always fresh, well spawned and reliable, can be thoroughly relied on to produce a fine crop of the best Mushrooms. My spores are the largest and finest in the country, and I sell at such low prices for first quality spores. Guaranteed the best in the world. Recipient of Medals made to prove it. A trial order solicited for \$1.00. Free price list. Write to the Editor, or the Editor, 100 W. 4th St., New York. Special prices for larger quantities. For a full list of prices, see the list of prices on the back of the box. Watson's Mushroom Culture, 100 pp. cloth, price, post paid.

C. C. WATSON, Wholesale Seedman,

43 North 10th Street, Phila., Pa.

PANSY SEED.

THE JENNINGS STRAIN OF FINEST

AMERICAN GROWN PANSIES,

In pkt. of 2500 seeds \$1.00, very finest mixed, all colors.

Large flowering plants all sold.

E. B. JENNINGS, Pansy Grower

Southport, Conn.

Lock Box 264.

Cincinnati.

Bright sunshine the past week had a remarkable effect on the flower supply. Lent has come again and will no doubt affect business as usual. Carnations are accumulating and prices have fallen considerable. Violets are a glut in the market. Roses begin to come better and more plentiful than for some weeks; they about equal the demand. Bulbous stuff moves slowly, with the exception of lily of the valley.

Market last Saturday was dull, owing to disagreeable weather. There was nothing new to be seen, except some well grown Azaleas sinensis and mollis on K. Schweizer's stand.

We visited Mr. R. Witterstaetter a few days since and found Dick up and around again attending to the general routine of business. Carnations on this place are in excellent condition, especially a house full of Emma Wocher, which he intends sending out next spring. This house alone is worth while going many miles to see. Two houses are devoted to seedlings and in those houses Dick spends most of his time. He has several of great promise, among them are three of special merit: No. 1, bright scarlet with strong stiff stem, healthy foliage, good calyx, as fragrant as Albertini and of free-blooming habit. He says this surely is a "charmer." No 2, a dazzling red. No. 3, a pure white, very large. All of these have been grown two seasons, many of the others would have been bread-winners a few years past.

Quite a number of florists will attend the Indianapolis carnation meeting March 4 and take a side trip to visit Mr. Dorner's place at Lafayette.

Saturday, March 14, meeting night, a full attendance is expected.

It has been rumored that Mr. Frank Boll, for several years shipping clerk at H. L. Sunderbruch's establishment, is to be married in the near future. Congratulations are in order. H. SCHWARZ.

New Seedling CHRYSANTHEMUM Wm. Simpson.

See Garden and Forest . . . Nov. 20th, page 465.
" Florists' Exchange . . . Nov. 23rd, " 1144.
" American Gardening . . . Dec. 14th, " 415.
" American Florist . . . Jan. 25th, " 652.
" Gardening . . . Feb. 1st, " 151.

To be sent out March 15th, 1896.

50c each; \$5 per doz.; \$35 per 100.

JOSEPH HEACOCK,
WYNCOTE, PA.

OUR NEW CHRYSANTHEMUMS FOR 1896

Have been fully indorsed by the
Chrysanthemum Society
of America.

Descriptions and prices free on application.

NATHAN SMITH & SON,
Adrian, Mich.
When writing mention the AMERICAN FLORIST.

Always mention the American Florist when writing to advertisers.

Our Illustrated Descriptive Catalogue and Our Wholesale Trade List for 1896

— OF —

Carnations, Chrysanthemums and Cannas

is now ready, and will be mailed to every florist who sends us his **name** and **address**.

THE COTTAGE GARDENS,
QUEENS, L. I., N. Y.

C. W. WARD, Manager.

CARNATIONS

	Per 100	Per 1000	
ROSE QUEEN, ALASKA, MINNIE COOK, WM. SCOTT, HELEN KELLER, THE STUART, DAYBREAK, THOS. CARTLEDGE, LIZZIE MCGOWAN, TIDAL WAVE, PORTIA,	\$5.00	\$40.00	FROM FLATS,
	2.50	20.00	EQUAL TO
	2.00	15.00	POT GROWN.



VAUGHAN'S SEED STORE, 84 & 86 RANDOLPH STREET, CHICAGO.

TWO BEAUTIFUL NEW CHRYSANTHEMUMS

GRETCHEN BUETTNER.

A large, beautiful white of great depth; distinct in color and form. Strong stem and fine foliage. 3½ ft. Crown bud. Certificate of Merit Horticultural Society, Chicago. First Class Certificate N. C. S. (See AM FLORIST, Nov. 16)

\$5.00 PER DOZEN; \$35 00 PER 100.

READY MARCH 1, 1896.

MRS. E. BUETTNER.

A beautiful clear yellow reflexed flower, in form like Morel, with excellent stem and foliage. Late. 3½ feet. Crown bud.

First Class Certificate N. C. S.

\$4.00 PER DOZEN; \$25.00 PER 100.

ORDERS BOOKED NOW.

E. BUETTNER, Park Ridge, Ill.

PINK IVORY,

(MISS AGNES L. DALSKOV.)

Strong, healthy plants from 2-inch pots, \$2 00 per dozen;
\$10 00 per hundred.



M. HANSEN, New Durham, N. J.

PINK IVORY.

Strong, healthy plants, \$1.50 doz.; \$4 per 50; \$6 per 100

Most complete collection of Chrysanthemums and Cannas at lowest prices.

Begonias, \$2 25 per 100. If interested send for list. Seed of either 25c.

Send for Trade List.

T. H. SPAULDING, 40 E. 25th St., New York.

CHRYSANTHEMUMS.

Strong plants from 2-inch pots.

ALL STANDARD SORTS,

\$2.00 per 100; \$15.00 per 1000.

Write for varieties.

THE NATIONAL PLANT CO., Dayton, O.

CHRYSANTHEMUMS.

80 New Varieties, including

Miss M. M. Johnson, J. E. Lager, Philadelphia. Minerva, Marie Louise, J. H. Troy, Mrs. Henry Robinson, Sunrise, Miss G. Pitcher, John Shrimpton, Royal Windsor, Mrs. S. T. Murdoch, H. W. Heman, Miss F. Pullman and Zulinda. Fifteen plants for \$1. Send for catalogue. Address

M. B. LITTLE, Clens Falls, N. Y.

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NEW SEEDLING CHRYSANTHEMUM

MRS. ADELAIDE WHITE.

We have grown this for three years, and recommend it for exhibition, as specimen plant, or cut bloom. The *Florists' Exchange*, Dec. 7, '95, page 1190, said of it, "The flower is of the hairy Japanese type, the color is entirely different from anything we have seen in that class. The lower florets were deeply suffused with pink, the upper ones being a clear white color; the combination making a pleasing effect."

READY MARCH 15th, 60c. each; \$6.00 per doz.

Orders booked in rotation.

W. MENEILLY & SON,
1218 James Street, SYRACUSE, N. Y.

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Do You Smoke?

We're not offering Cigars, but good strong **TOBACCO STEMS**, not warehouse stored but Fresh from Factory, at **1c. a pound**, in 200 to 300 lb. bales.

OUR BONE MEAL

is fine ground, per 100 lbs. \$2.50; per barrel at \$2.00 per 100 lbs.

Write **ELLIS & POLLWORTH**,
Box 75 MILWAUKEE, WIS.



ROOTED CUTTINGS CARNATIONS

	Per 100	Per 1000
DAVEBREAK.....	\$2 00	\$15 00
WM. SCOTT.....	2 00	15 00
STORM KING.....	5 00	
METEOR.....	5 00	
PORTIA.....	1 50	12 50
TIDAL WAVE.....	1 50	12 50
BUTTERCUP.....	5 00	
MRS. FISHER.....	1 50	12 50
LIZZIE MCGOWAN.....	1 50	12 50
ANNA WEBB.....	2 00	15 00

I will give 10 per cent. discount for cash with order on the above prices.

EDW. J. TAYLOR, Southport, Conn.

The Great **WORLD'S FAIR** Success.

"Lemoine's Hybrids are the chief glory."
—*American Florist*, Aug. 17, 1893.

GLADIOLUS Lemoinei and Nanceianus.

(10 first-class named varieties offered at low

The best new Forcing Shrub

Deutzia Lemoinei,

Each 5 francs; per dozen 48 francs

Apply to **V. LEMOINE & SON, Nancy, France.**

New plants a specialty. Catalogues free

Mention *AMERICAN FLORIST*

New, Rare and Beautiful Plants

LORD PENZANCE'S New Hybrid Sweetbriars. Old Garden Roses. New Roses. Standard Roses. **PHILADELPHIUS LEMOINEI**; NEW **LILACS**; **LONICERA HILDEBRANDTII**; **SPIRÆA "ANTHONY WATERER"**; Etc. A large collection of rare Hothouse and Greenhouse Plants.

ANTHURIUMS, ALOCACIAS, ORCHIDS, RARE CONIFERS, and other Beautiful **EVERGREENS**.

MAGNOLIAS, JAPANESE MAPLES, with other Choice **TREES and SHRUBS**.

PEONIES.—A large collection of the finest in cultivation. Hardy Perennials, Phloxes, Japanese Iris, Roses, Clematis, etc. New and Standard Fruits, etc. Catalogues on application

JOHN SAUL, WASHINGTON, D. C.

LATANIA BORBONICA.

10,000 very fine plants from 2½-inch pots, \$3.50 per 100, or \$28.00 per 1000. Just the thing to grow on for your next fall and winter's trade. On receipt of price we will deliver these free of charge to any point in the United States.

WHOLESALE LIST ON APPLICATION.

THE AMERICAN EXOTIC NURSERIES, Seven Oaks, Fla.

ROEMER'S SUPERB PRIZE PANSIES.

The finest strain of Pansies in the world, including all leading Novelties. Plants, middle size.....75c per 100; \$5.00 per 1000, extra large, will be in bloom in few weeks, \$1.50 per 100; \$12.00 per 1000. Terms cash or C. O. D.

PETER BROWN,

721 Marietta Ave., LANCASTER, PA.

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AZALEAS FOR EASTER.

The **BEST** Value for the Money.

We have an exceptionally fine stock of well shaped and well budded plants, consisting of the best marketable varieties, which we can furnish showing color, for immediate delivery, or in bud, which can be kept back for Easter. We are offering them at the following exceedingly low prices:

Sizes	Per doz.	Per 100
10 to 12 inch heads.....	\$6 00	\$45 00
12 to 14-inch heads.....	9 00	70 00
14 to 16-inch heads.....	18 00	135 00
16 to 18-inch heads.....	22 00	170 00
18 to 20-inch heads.....	30 00	225 00
20 to 24-inch heads.....	each, \$3	36 00

PITCHER & MANDA, Short Hills, N. J.

ONLY A FEW MORE THOUSAND LEFT.

IF YOU WANT THEM, SPEAK QUICK.

GERANIUMS.

We can still supply you with a good assortment in the following varieties: **DOUBLES**—Gen'l Grant, Mme. Dabauche, Mozart, M. C. Whitney, Pluto, Th. Bannville, La Favorite, Swanley Double White, Mrs. Ch. Pease, Rose Bouquet, Comtesse de Baume. **SINGLES**—Madonna, Rev. Harris, J. R. Lowell, Mrs. Gaar, Mar. de Layres, Peach Blossom, Daybreak.

Rooted Cuttings, Price, \$2.00 per 100; \$15.00 per 1000. 500 at 1000 rates.

THE TWO GRAND MARKET PELARGONIUMS—Mme Gust. Henry and Mme. Vibert, from 2½ inch pots, \$1.50 per dozen; \$12.00 per 100. Strong 3 inch, \$2.00 per dozen; \$15.00 per 100.

ADIANTUM CUNEATUM—Fine stock from 2½-inch pots, 50c per dozen; \$1.00 per 100. Strong 3 inch at \$1.00 per dozen; \$7.00 per 100.

FARFUGIUM GRANDE—Strong 2½-inch pots, \$5.00 per 100. 3-inch all sold.

CRIMSON RAMBLER ROSE—Extra fine, 2½ inch, 50c per dozen; \$4.00 per 100; \$35 00 per 1000.

NEW PINK SOUPERT—Elegant stock from 2½ inch pots \$1 00 per dozen; \$8.00 per 100.

CLOTHILDE SOUPERT—Strong 2-inch stock, \$3 00 per 100; \$25.00 per 1000.

Terms cash or satisfactory references. Send for Trade List. Address

[**Forest City Greenhouses.**]

H. W. BUCKBEE, Rockford, Ill.

Mention *American Florist*.

Novelties for 1896

Roses, Carnations and Chrysanthemums.

My new Trade list, describing all that are desirable in New and Standard varieties, NOW READY.

JOHN N. MAY, Summit, New Jersey.

When writing mention the *American Florist*.

We have RAISED the PRICE OF OUR 1896 NEW CANNAS

originated by our Mr. Antoine Wintzer, from \$6 per set of 12, to \$10 per set, after April 15. This owing to the demand from here and from Europe. Sample orders:—"Book me for 500 White Cannas." W. H. MAULE, Phila. "You may send me 250 White Cannas." J. C. VAUGHAN, Chicago. "Please send us 100 White Canna Alsace." PETER HENDERSON Co., Etc., etc.

CANNA GROWERS PLEASE NOTICE That we have named our latest and best **PINK CANNA "THE DUCHESS OF MARLBOROUGH,"** and our **Crimson-black Canna "THE DUKE OF MARLBOROUGH."** List of newest Cannas free.

QUEEN CHARLOTTE CANNA, \$8 00 per 100; \$1 25 per 12, mailed. Send for Catalogue of Novel ties.

A. BLANC & Co., Philadelphia, Pa.



A SPRAYER \$2.50
Express Prepaid.

THE COMET Sprays from Bucket or Barrel, 50 FEET.

DOUBLE ACTING Made on new Scientific and Mechanical Principles. Send for **FREE** Catalogue which will make it plain to you that I have the **SPRAYER** you want.

H. B. RUSLER, Johnstown, Ohio, U. S. A.

SEND ADVS. NOW
FOR OUR

Special Spring Number

TO BE ISSUED

MARCH 21.

Grand Rapids, Mich.

The Florists' Club held its regular meeting March 3 in the parlor of the Eagle hotel and will hereafter hold its meetings there, the first and third Tuesdays of each month, attendance good, discussions interesting.

The premium list for the chrysanthemum show next fall received earnest consideration, the main point brought out was, would it not be well to give each exhibitor a percentage of the premium list money, according as his exhibit compared with others; in this way the weaker ones would receive a percentage according to merit, where as premium lists are now arranged the underlings get little or nothing.

Mrs. Evelyn Arnold read an essay on the best method of growing the most desirable new sweet peas.

Silver Spray was called the best all around white carnations. F. A. Chapman exhibited his new pure pink carnation, a sport from Daybreak; it gives good promise of possessing commercial value.

Messrs. Crabb and Cross gave an interesting account of a visit to Geo. Hancock's greenhouses, Grand Haven. Hancock believes in growing medium grade of carnation, rather than fancy or culls.

EVELYN A.

Duluth, Minn.

Smith & Seekins have recently purchased the Duluth Greenhouses, formerly owned and operated by McComber, and are now putting the houses in first-class shape to supply the demand in this city and near by towns for house and bedding plants and cut flowers. They are also adding a show and rose house to the plant.

The recent cold snap made the coal bills big but we have had a milder winter than usual. Business has been very satisfactory. Roses are retailing at \$1 a dozen and carnations 40 to 50 cents a dozen. E.

Now is the time to send advs. for our special spring number to be issued March 1.

MT. PLEASANT, IOWA, 2-26, 1896

J. J. STYER, Dear Sir:—The carnations bought of your have been received in good condition and they were the finest rooted cuttings I ever saw.

Very truly, J. W. THOMPSON.

10,000 PLANTS OF MRS. FISHER, rooted in October and now in beds; the best white for summer blooming, \$15 per 1000.

J. J. STYER, Concordville, Pa.

CARNATIONS

Rooted Cuttings.

Perfectly clean and healthy, and will be well rooted when sent out.

Daybreak, Scott, McGowan, Puritan, Silver Spray, Tidal Wave, Portia.

Delivery Feb. 15 and later, \$1 per 100; \$8 per 1000.

Mme. Albertini, Emily Pearson,
Helen Keller.

Delivery Feb. 15 & later, \$1.50 per 100; \$10 per 1000.
TERMS CASH WITH ORDER.

MAGNUSON & PEARSON,
Bowmanville, Station X, Chicago.

HERR'S CARNATIONS.

ROOTED CUTTINGS that will give good results, because they are taken from healthy stock, and will be well rooted when sent out.

VARIETIES:

McGOWAN,
STORM KING,
ALASKA,
ANNIE LONSDALE,
IVORY.

DAYBREAK,
SCOTT,
ROSE QUEEN,
PEACHTHROW,
DELLA FOX.

DORNER,
STUART,
PORTIA,
JUBILEE,
IAGO.

HELEN KELLER,
KITTY CLOVER,
ELDORADO,
CARTLEDGE,
TIDAL WAVE.

Fourteen large houses full of Carnations. State how many you will want of each variety in asking for prices.

L. B. 496.

ALBERT M. HERR, LANCASTER, PA.

Crimson Sport Carnation.

This new carnation originated with us six years ago and has been thoroughly tried before offering it to the trade. Crimson Sport, as its name will imply, is a sport from Unique, which was a sport from Lydia. Crimson Sport has the strong, healthy growth of its parent, very large crimson flowers, free from rust and disease, very prolific, long stiff stems, perfectly healthy growth, a good shipper, a good keeper and all in all the best crimson carnation now in cultivation. We say this after growing it several years and comparing it with all the recent introductions and old varieties.

Having plenty of stock our cuttings will be taken from perfectly healthy plants that have not been forced or propagated to death, as is often the case.

Call and see it growing or send for carnation circular of this and other varieties.

ROOTED CUTTINGS, \$1.50 per dozen; \$10.00 per 100; \$60.00 per 1000.

J. L. DILLON, Bloomsburg, Pa.

NEW CARNATION, W. D. SLOANE.

This new sort will undoubtedly prove a leader to all Florists securing a good stock in time. We know of no better variety of its color, and none can equal it in fragrance. The plant is a strong and vigorous grower, needing but little support, with dark foliage about as heavy as Tidal Wave. Flowers are large, good substance and lasting qualities, borne on stiff stems 15 to 20 inches in length; color the same as the above well-known variety, a beautiful cerise. Very profuse bloomer, continuing to bloom late into the summer.

PRICE, \$10.00 PER 100; \$75.00 PER 1000.

PITCHER & MANDA, SHORT HILLS, N. J.

Carnation Cuttings CHEAP.

Having sold my property, dwellings, greenhouses, etc., which are to be torn down for railroad purposes, I offer and MUST SELL, at a sacrifice, the following: 75,000 Cuttings consisting mostly of **Wm. Scott**, Lizzie McGowan; also a few thousand **Portia**. All sorts at \$7.00 per 1000. Fine, elegant stock, well-rooted. Any amount Scotts unrooted, by mail cheap. All other stock in general. Rare Chance, for cash Order at once. Address

J. MARC, Woodside, L. I., N. Y.

CARNATIONS

	Per 100	Per 1000
OPHELIA.....	\$5.00	\$40.00
SWEETBRIER.....	2.00	15.00
SCOTT.....	2.00	15.00
DAYBREAK.....	2.00	15.00
CARTLEDGE.....	2.00	15.00
PORTIA.....	1.50	12.50
McGOWAN.....	1.50	12.50
LAMBORN.....	1.50	12.50
PURITAN.....	1.50	12.50

VIOLETS. Lady Campbell, splendid, inexpressible, \$1 per 100; \$8 per 1000.

MUMS. At \$1.50 per 100. The following: Ivory, Yellow Queen, Mutual Friend, Marie Louise, Mrs. J. George Iles, Mrs. Craigie Lippincott, Mrs. E. G. Hill, and E. Daileidouze.

We can furnish other standard varieties of carnations if desired, and will fill orders now. Cash with order. Yours truly,

C. S. SWAYNE, Kennett Square, Pa.

Try EDITH FOSTER,

NEW WHITE CARNATION

(Offered for the first time.)

STOCK LIMITED.

Has been TESTED THREE YEARS. Is early and productive. Flowers medium to large, of good form and substance, very fragrant, stems long, habit of plant, ideal.

COME AND SEE IT.

Watch for it at the American Carnation Society's Exhibit at New York in February.

Send for descriptive price list of **NEW AND TESTED CARNATIONS.**

PETER FISHER, Ellis, Norfolk Co., Mass.

Send Advs. NOW

FOR OUR

SPECIAL SPRING NUMBER

TO BE ISSUED

March 21.

CARNATIONS for 1896
Edward Swayne, Carnationist

El Dorado, 5 40
Kumador, 4 40
Ophelia, 4 40
Unc. Jno. 2 15
McGowan, 2 15
Sweetbrier, 2 15
Scott, 4 40
Carledge, 4 40
Daybreak, 4 40
Portia, 10 1250
Buttercup, 4 40
Orange Blossom, 4 40
Helen, 4 40

VIOLETS
Farquhar, 4 40
Campbell, 4 40

CHRYSANTHEMUMS
Eiderdown
H. W. Riemer

Handwritten notes:
"No Rust"
"Kennett Sq. Pa. Feb. 11/96"
"Gentlemen."
"We take pleasure in quoting our column indicators"
"one should like to draw your attention particularly to Carnation Eldorado which we believe is destined to take the leading place among yellow, as it has shown up equally well in exhibition and in the double, long of double elegance of ordinary variety, also a Farquhar Violet, which is making quite a stir in New England and of which we have very bright clean stock."
"Yours truly C. S. Swayne"

Eldorado, Kitty Clover

The best **YELLOW CARNATIONS** to grow for profit. ROOTED CUTTINGS now ready, @ \$5.00 per 100. Also 30,000 strong rooted cuttings of suitable kinds for summer bloom.

LADY CAMPBELL VIOLETS, rooted runners, @ \$1.00 per 100; \$8.00 per 1000.

W. R. SHELBAIRE,
Chester Co., AVONDALE, PA.

DO YOU WANT CARNATIONS?

If so, why not GROW the BEST?

50,000 ROOTED CUTTINGS, including Daybreak, Wm. Scott, Goldfinch, Lizzie Gilbert, Emily Pierson, Lizzie McGowan, Tidal Wave, S. Spray, Hince's White, &c. Can do you justice in quality and prices. Write me before you buy. Address **CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.**

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns

Garnation Orders

BOOKED NOW.

Good, clean, well-rooted stock. NO RUST.

	Per 100	Per 1000
BRIDESMAID.....	\$5.00	\$50.00
METEOR.....	5.00	40.00
STORM KING.....	5.00	40.00
UNCLE JOHN.....	3.00	25.00
STUART.....	3.00	25.00
E. A. WOOD.....	3.00	25.00
GOLDFINCH.....	4.00	35.00
WM. SCOTT.....	2.50	20.00
DAYBREAK.....	3.00	25.00

CHRYSANTHEMUMS.

	Each	1 doz.	100
Mrs. W. C. Egan, new (ready March 1)	.50	\$5.00	\$50.00
Tippecanoe, new (ready March 1)	.50	5.00	35.00
Amaranth, new (ready March 1)	.50	5.00	35.00
Mr. E. M. Bigelow	1.00	8.00	
Mrs. S. T. Murdoch	1.00	8.00	
Oakland	1.00	8.00	
Major Bonafant and other choice older standard sorts	.75	5.00	

Send for descriptive trade list.

F. DORNER & SON,
LA FAYETTE, IND.

The Crack Carnations:



SCOTT, ALBERTINI,
DAYBREAK, McGOWAN.

Selected Cuttings, well rooted in sand and soil, delivery February 15th and later, \$2.00 per 100; \$15.00 per 1000.

Send your order at once, with cash, to get these figures . . .

ALEX. McBRIDE,
ALPLAUS, N. Y.

50,000 CARNATIONS

ROOTED CUTTINGS

Now Ready

Positively clear of RUST. Send for price list.

William Swayne,

P. O. Box 226. KENNETT SQUARE, PA.

THE BEST

WHITE ALASKA PINK SCOTT

CARNATIONS

HEALTHY STOCK NOW READY.

C. PESENECKER & SON, 290 Kilpatrick St. JERSEY CITY, N. Y.

IVORY, NEW WHITE CARNATION

Closely resembling Wm. Scott in growth of plant and abundance of bloom. Flowers pure ivory white, of good size and fine form.

ROOTED CUTTINGS ready March 1st, \$10.00 per 100; \$75.00 per 1000.

Send for complete price list.

GEO. HANCOCK & SON, Grand Haven, Mich.

CARNATIONS—Rooted Cuttings.

Leading varieties, \$1.50 per 100; \$10.00 per 1000.

Alyssum, Heliotrope, Paris Daisy, Fuchsia, Geranium, Chrysanthemums.

Rooted Cuttings, fine 2-inch pots, at lowest market prices.

C. LENGENFELDER,

Berteau and Western Ave., CHICAGO.

CARNATIONS

Rose Queen

Per 100 Per 1000

Rooted Cuttings.....\$4.00 \$30.00

Strong plants.....6.00 50.00

No Rust with us.

A. DONAGHUE, Omaha, Neb.

CARNATIONS

DELLA FOX and ANNIE H. LONSDALE

invite you to call at their home. It will pay any grower to spend the time to visit these sterling varieties; there is nothing like them under cultivation in this country. You will find them the best investment you ever made. Not croppers, but always in bloom, from Aug. to the following July.

COME AND SEE THEM.

One Hundred Dollars in Cash Premiums will be offered for the best 50 blooms of **DELLA FOX** in the fall of 1896—divided in the four largest cities in the U. S.

ROOTED CUTTINGS, Price: Less than 100, \$12.00 per 100. 100 @ \$10.00 per 100. 1000 @ \$75.00 per 1000. READY MARCH 1st, 1896. No orders will be booked unless cash accompanies order or satisfactory reference given. Sample cut blooms will be sent to florists' clubs only on application.

MYERS & SAMTMAN, Wyndmoor, Chestnut Hill, Phila.

CARNATIONS—Rooted Cuttings.

STORM KING, from sand or soil,	\$5.00 per 100; \$40.00 per 1000
BRIDESMAID, " "	5.00 " 40.00 "
METEOR, " "	5.00 " 40.00 "
SCOTT, " "	2.00 " 15.00 "
McGOWAN, " "	2.00 " 15.00 "
ALASKA, " "	5.00 " 40.00 "

CASH WITH ORDER, PLEASE.

CHAS. H. ALLEN, Floral Park, N. Y.

Carnations, Rooted Cuttings,

FROM FINE, HEALTHY STOCK PLANTS.

White—ALASKA, STORM KING, UNCLE JOHN. (no rust) McGOWAN.

Pink—ROSE QUEEN, PEACHBLOW, ALBERTINI, SCOTT, DAYBREAK, CARTLEDGE, Etc.

Scarlet—HECTOR, PORTIA, CORSAIR.

Crimson—METEOR, PRIDE OF KENNETT.

Variegated—H. KELLER, MINNIE COOK, CHESTER PRIDE.

Yellow—DEAN HOLE, BOUTON D'OR, BUTTERCUP, Etc.

All well rooted and sure to give satisfaction. Send for price list.

H. WEBER & SONS, Floral Park, Oakland, Md.

CARNATIONS! CARNATIONS

The two leading varieties

Alaska and Minnie Cook.

Buy from the originator and procure genuine stock. CUTTINGS NOW READY.

— ALSO —

ROSE QUEEN, DAYBREAK, WM. SCOTT, VAN LEEUWEN, TIDAL WAVE, Etc.

Write for price list.

McCORNAC & CO., Paterson, N. J.

Successors to H. E. CHITTY.

CARNATIONS.

Fine and healthy rooted cuttings of the following:

Meteor, Kohinoor, Bride of Erlescourt, Rose Queen, Dean Hole, Lizzie Gilbert, \$1.00 per 100
Daybreak, Scott, Cartledge, Tidal Wave, \$2.00 per 100; \$15.00 per 1000
Silver Spray, Aurora, Portia, Lizzie McGowan, Mrs. Fisher \$1.50 per 100; \$12.00 per 1000.
LADY CAMPBELL, VIOLET RUNNERS, in any quantity at \$5.00 per 1000.

JOS. RENARD, Unionville, Chester Co., Pa.

SMILAX from 2-inch pots, \$1.50 a 100; strong plants by mail, 50c per 100. **GERANIUMS** from 2-inch pots, \$2.25 per 100. Send for samples. Cash with the order.

FRED. BOERNER, Cape May City, N. J.
Mention American Florist.

Orders solicited for ROOTED CUTTINGS.

KOHINOOR takes the lead.

Other Novelties of the Standard sorts at standard prices. All healthy and strong.

C. J. PENNOCK,

The Pines. KENNETT SQUARE, Chester Co., PA

CARNATIONS PEACHBLOW.

Rooted Cuttings ready April 1st, '96, \$5.00 per 100, and \$45.00 per 1000.

Book your orders early and be sure that you will get them. Sample blooms sent free.

ESTATE OF M. A. HUNT, Terre Haute, Ind.

50,000 CARNATIONS

from flats, equal to pot grown. Warranted to give satisfaction. Cash with order. Per 100 Per 1000

ROSE QUEEN.....	\$1.50	\$12.00
DAYBREAK.....	1.50	12.00
WM. SCOTT.....	1.50	12.00
LIZZIE McGOWAN.....	1.50	12.00
SILVER SPRAY.....	1.50	12.00
TIDAL WAVE.....	1.50	12.00
PORTIA.....	1.50	12.00
J. J. HARRISON.....	2.00	15.00
VIOLETS, MARIE LOUISE.....	1.00	8.00

HENRY A. NIEMEYER, Erie, Pa.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Utica, N. Y.

Not since the memorable year of 1892 have the florists of Utica enjoyed such a prosperous season. The reports are indeed most gratifying, both the shipping trade and the local sales having been more than doubled in volume as compared with those of a year or two ago. Prices too have held their own, notwithstanding the few attempts made by some "to draw trade" by means of selling flowers for a song. Such attempts, however, were but of short duration. Choice roses sold readily at \$2, extra fine stock at \$2.50 and \$3, fair to medium at \$1.50. Carnations brought 50 and 75 cents; 50 cents for carnations and \$1.50 to \$2 for roses are the prices ruling at present.

Mr. Wm. Mathews, of orchid fame, is as usual a very interesting and highly entertaining talker on the subject of his favorites. A finer and more varied collection it would be hard to find among the commercial houses in the country.

During the past week Mr. Chas. F. Baker and staff were unusually busy, having had their hands full in turning out funeral work. Among other things a mammoth train, consisting of a locomotive, tender and baggage car, the whole measuring over twelve feet in length and two feet high, was one of the pieces ordered by some railroad employees for the funeral of a fellow workman.

Mr. Baker's houses are in splendid condition, and his roses and carnations have never looked finer. Among the latter there are several excellent specimens of seedlings, red, white and pink, all doing exceedingly well. Mr. Baker grows this season considerable bulbous stock, and among other things his house of Harrisii proving to surpass any of his previous efforts. It is the finest stock that I have beheld during my recent travels.

Mr. Frank Baker is on the sick list, being confined to his bed as the result of a slip and fall upon an icy pavement, sustaining some internal injuries in consequence.

Bay City, Mich.

The John Irvine Green House Co. operating greenhouses and an office in Bay City, and a store at 220 Woodward avenue, Detroit, has filed a chattel mortgage, running to James A. See, of Bay City, as trustee, for \$33,611.04, covering all personal property in Bay City and Detroit.

Of the total, \$17,000 is for extension of credit, and the balance for present indebtedness. The mortgage provides that the company shall have three years in which to pay its indebtedness. The company has a large tract of land in the heart of Bay City, and is reported to be abundantly able to pay all outstanding claims.

HORSE CHESTNUT TREES.

Having a surplus stock of white-flowering Horse Chestnut trees, nursery grown and twice transplanted, we offer same at the following low rates:

	Per 10	100	1000
5 to 6 feet, branched	\$2.00	\$16.00	
4 to 5 feet, some branched	1.60	12.00	\$100
3 to 4 feet, not branched	1.00	8.00	70

Fifty at hundred rates. Address all orders to
LEE & SKINNER, Geneva, Ohio.

PANSIES.

All the finest strains. Per 100 Per 1000

Large transplanted plants	\$.60	\$ 4.50
MAMMOTH VERBENAS	.70	5.50
NEW CALIFORNIA VIOLET—Rooted		
Runners	2.00	15.00
LITTLE BEAUTY FUCHSIA—Rooted		
Cuttings	2.00	

These plants are ready to be delivered at once.
S. WHITTON & SONS, Wholesale Florists,
City and Green Sts., UTICA, N. Y.

ROSES, TREES, BULBS, PLANTS.

200,000 Strong, hardy, nursery grown Roses.
500,000 Pot Roses, Teas, China, Bourbon, etc.
Greenhouse plants of all descriptions.

100,000 Elegant Poplars, 5 to 25 feet, Carolina Aurea, Lombardy.

ONE THOUSAND CAR LOTS of OTHER ORNAMENTAL TREES, SHRUBS, Etc.

250,000 Peach, choicest sorts.
150,000 Pear, standard and dwarf
100,000 Plum, best European and Japan.
75,000 Cherry, Morellos Hearts, etc.
150,000 Apple, Quince, Apricot.

100,000 Nut bearing trees
2,000,000 Small Fruits, Grapes, Currants, Gooseberries, Raspberries, Blackberries, Dewberries, Strawberries.

We occupy one and a half miles on the bank of Lake Erie. No healthier, hardier trees are grown on the continent. Catalogue and Trade List free. Lower quotations given on large lots. Write us We can do you good

42nd YEAR. 1000 ACRES. 29 GREENHOUSES.

THE STORRS & HARRISON CO., PAINESVILLE, OHIO.

Mention American Florist

PALM SEEDS

WE GUARANTEE full germinating power & replace seeds non-germinating
Per 1000 Per 5000 Per 10000

Cocos Weddelliana	\$12.00	\$55.00	\$100.00
Areca lutescens	10.00	47.50	90.00
Areca rubra	10.00	47.50	90.00
Geonoma gracilis	12.00	55.00	100.00
Geonoma Schottiana	15.00	65.00	120.00

On hand in excellent condition:

Latania Borbonica,

500 per 100; \$1.75 per 1000; \$12.00 per 5000.

Pandanus Utilis

\$1.50 per 100; \$12.50 per 1000; \$8.00 per 5000.

Chas. Schwake, 404 E. 34th St., New York.

6,000 BEGONIA NIVEA,

AT REDUCED PRICES.

The New Everblooming Apple Blossom Begonia. We have a large stock of this grand winter blooming and summer bedding plant; it being covered with elegant panicles the whole year round, making it a valuable market plant. In color it is of a delicate pink when in bud, expanding through lighter shades to snowy whiteness when in full flower, giving it an apple-blossom appearance, that is unique, and what the ladies call "just lovely."

In order to make room, and to place in reach of all, we offer 6,000 plants only at reduced rates if ordered before March 1st, 1896, after which date, prices will be advanced. It is a most vigorous grower, propagates easily, and has come to stay. The plants are well branched, well established and first-class in all respects, and sure to give satisfaction. Up to date florists should secure some of this stock for their floral work.

We guarantee safe arrival in good condition, and extras added to all orders of one dollar and upwards by express. Cash with the order. 70 plants at 100 rates.

MAIL EXPRESS

	Each	Doz.	100
From 2 1/2-inch pots	15	1.50	\$ 7.50 \$ 4.00
" 2 1/2-in. pots, ex strong plants	20	1.50	1.00 6.00
" 4-inch pots, well branched,			
full bloom	25	2.00	1.25 8.00
" 5-inch pots, ex strong heavy			
plants in bloom	35	2.50	2.00 12.00
" 6-inch pots, too large to mail.	30	2.50	15.00
Rooted Cuttings to order, \$20.00 per 1000			2.00
Strong stems with leaves, buds and bloom,			1.00
Large panicles ships well			.50

J. ELLETSON,

Floral Nurseries, AUBURN, N. Y.

Send advs. now
for our
Special Spring Number
to be issued
March 21.

Bulbous Begonias.

LAING'S STRAIN In separate colors.

Lilium Longiflorum, Tuberoses, Sp ræas, etc. Now on hand.

Ask for prices.

HULSEBOSCH BROS., Englewood, N. J.

PALM Seed.

Orders taken now for Spring and August delivery of the following varieties germinating power 75 to 90 per cent

CROP '95 & 96.	100	1000	5000
Areca lutescens	\$1.25	\$10.00	\$45.00
Cocos Weddelliana	1.25	10.00	47.50
Geonoma gracilis	1.50	12.00	50.00
Kentia Belmoreana	1.00	7.50	35.00
" Forsteriana	1.00	7.50	35.00

Now on hand, fresh stock:

Latania borbonica	.35	2.50	10.00
Erythra armata	1.50	12.50	
" dulcis	1.50	12.50	
Sabal serrulata	.50	4.00	
Washingtonia filifera	.25	2.00	
" robusta	.35	3.00	

J. L. SCHILLER, Rutherford, N. J.

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address GEORGE WITTBOLD,
1708 N Halsted St., CHICAGO.
Mention American Florist

AZALEAS,
PALMS,
ARACARIAS,
BAYS,

SANDER,
Bruges,
BELGIUM.

Agent: A. DIMMOCK,
106 & 108 Liberty Street, NEW YORK.
SEND FOR SPECIAL OFFER.

SPECIALTIES

IN BEST VARIETIES.

ROSES, from 3-inch pots
CARNATIONS, for fall delivery
CHRYSANTHEMUMS.
SMILAX. VIOLETS.
Prices low. Send for list.
WOOD BROTHERS, FISHKILL, N. Y.
When writing mention American Florist

E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

GENERAL COLLECTION OF PLANTS.

	Per 100
Artemisia, silvery foliage.....	\$3 00
Achyranthes, four kinds.....	3 00
Ageratum, White Cap, white.....	3 00
" John Douglas, blue.....	3 00
Cuphea, 3 kinds, the best.....	3 00
Canna, Fancy French.....	5 00
" Common.....	3 00
Coleus, all kinds.....	\$25.00 per 1000 3 00
Calla.....	\$4 00, \$6.00, 20 00
Cactus, in variety.....	8 00
Century Plants, fine specimens, \$15 to 25 00	
Cyperus alternifolius.....	5 00
Croton.....	\$5 to 10 00
Cyclamen, 3 and 4 inch pots.....	10 00
Dracæna indivisa.....3-in. \$15; 4-in. 20 00	
Dahlias.....	\$3.50 and 4 00
Epiphyllum, Lobster Cactus.....	8 00
Eulalia zebrina, Zebra Grass.....	8 00
Euphorbia splendens.....	10 00
Ficus australis, Rubber Tree.....	10 00
Fuchsias, general collection.....	\$3 to 4 00
Gladiolus.....	2 00
Geraniums, all kinds.....	\$3 to 4 00
Hibiscus.....3-in. \$4; 4-in. 5 00	
Heliotrope, 2-inch pot plants.....	3 00
Hydrangea, 3 and 4-inch.....	\$6 to 10 00

	Per 100
Helianthus.....	\$5 00
Ivy, all kinds.....	\$3 to 10 00
Jasminum, 3 kinds.....	8 00
Lantana, fine, best varieties.....	4 00
Lemon Verbena.....	4 00
Lobelia.....	3 00
Moon-Flower.....	\$25 per 1000 3 00
Manettia, 2 and 3-inch pots.....	4 00
Nierembergia gracilis.....	\$3 to 5 00
Pandanus utilis, 2-inch pots.....	8 00
Pelargoniums.....	8 00
Petunia, double and single.....	5 00
Poinsettia, 5-inch pots, 20c each.....	15 00
Pansy, every variety.....	2 50
Pæonia, assorted.....	\$5 to 15 00
Primroses, 3-inch pots.....	\$3 to 6 00
Polyanthus, 2 and 3 inch.....	\$5 to 6 00

	Per 100
Roses, Monthly and Tea.....	\$3 to \$4 00
" Hybrid Perpetual.....	\$3 to 4 00
Vincas.....	\$6 to 10 00
Verbenas, every variety.....	2 50
Chrysanthemums, 25 varieties.....	\$3 to 5 00
Carnations.....	\$3 to 6 00
Begonias, best assortment.....	\$3 to 8 00
Ferns. We grow Ferns for the mar-	
ket, and have several houses devoted	
to their growth.....	\$6 to 10 00
Palms and Decorative Plants. Our Palms	
are in fine condition, and we make better	
inducements than ever before.	

Send for Our Complete Catalogue.

TREE AND PLANT LABELS. MAILING BOXES.

WILLIAMS & SONS CO.,

BATAVIA, Kane Co., ILL.

New Single Violet Luxonne.

This variety is of French origin and was introduced into this country some four years ago by Mr. Francois Supiot, the Violet expert of Philadelphia, otherwise known as the "Violet King." It has, as Mr. Supiot claims, become thoroughly acclimated, and is without doubt, the most profitable single Violet grown. It is of the same size as the California, but appears nearly double its size, as all the petals open out flat, and has the advantage of flowering continuously from early in September until April, and does not come in crops like the California. It is of a beautiful rich, but soft violet purple color, with strong stout stems from 9 to 12 inches long, and very fragrant.

Shown in competition with well grown flowers of the California at the New York Flower Show last fall, it was awarded the *First Prize*.

We can fully endorse Mr. Supiot's description of the above and also his claims that it supersedes all other varieties now on the market. **\$2.00 per dozen; \$15.00 per 100.**

New Red Violet, Admiral Avellan.

Another French variety with distinct reddish purple flowers, entirely distinct from anything yet introduced. **\$2.50 per dozen; \$20.00 per 100.**

We have been appointed **SOLE AGENTS** by Mr. Supiot for the distribution of his stock, and are now booking orders for delivery **EARLY IN MARCH** for well established plants from 2 1-4 inch pots.

HENRY A. DREER, No. 714 Chestnut Street, Philadelphia, Pa.

Surplus Stock Evergreens.

	Per 100
European Silver Fir.....2 to 3 ft. \$8 00	
Balsam Fir.....3 to 4 ft. 8 00	
Black Spruce (Abies nigra) 3 to 4 ft. 10 00	
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Red Cedar.....4 to 5 ft. 15 00	

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FOR OUR
SPECIAL
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NUMBER
TO BE
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MARCH 21.**



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CUSHMAN'S GLADIOLUS BULBS,
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100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, \$1.00 per 100; \$8.00 per 1000.

NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.
We are the Largest Growers of Verbenas in the country.
Our plants cannot be surpassed.

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Offer the following:	100	1000
Primula Jap. nice 2½-inch pot plants.....	\$2.50	\$
Rooted Cuttings Carnations, 3 varieties.....	1.00	
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Rooted cuttings Chrysanthemums, standard		
varieties.....	1.00	9.00
R. C. Marguerite Daisy, white and yellow.....	1.00	9.00
R. C. Vinca variegata.....	1.00	9.00
R. C. Carnations, Daybreak, McGowan, Port-		
tia, etc.....	1.25	10.00
R. C. a quantity of La France Roses.....	1.50	12.00
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Rhododendrons in sorts, Pæonia, Bleeding Heart, Spiræa japonica, Azalea, Magnolia, Lilacs and Shrubs.

H. P. ROSES in sorts.

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Catalogue on Application. **JERSEY CITY, N. J.**

News Notes.

JAMESTOWN, N. Y.—J. Hetherington succeeds Ross & Hetherington.

WAYNESVILLE, O.—Two greenhouses at Miami Cemetery were burned Feb. 20.

CUYAHOGA FALLS, O.—Mr. M. Crawford was quite seriously injured by a falling tree last week.

HENDERSON, KY.—The firm of Hart & Fuller has been dissolved, Mr. Fuller retiring. The business will be continued by A. B. Hart & Co.

MINNEAPOLIS, MINN.—The Lakewood Greenhouse and Floral Co. has been incorporated with a capital stock of \$10,000. The incorporators are T. F. Hartman, Frank A. and Christine Moldenhauer.

GREECE, N. Y.—The Vick & Hill Co. has been incorporated with headquarters here. The capital stock is \$15,000 and the incorporators are John Hill, Fred W. Vick and Edward T. Vick. The Company will grow and deal in seeds, bulbs, plants and nursery stock.

PITTSBURGH, PA.—Robert Ellis has leased for a long term the old skating rink property at the corner of Wyoming avenue and Montgomery street and will build a range of greenhouses there. He takes possession April 1. As the lease of his present place on Luzerne avenue does not expire for another year his salesroom will probably remain at the old place for some time.

LITTLE ROCK, ARK.—The Arkansas State Hort. Society has elected the following officers: President, S. H. Nowlin, Little Rock; vice-president, W. K. Tipton, Little Rock; secretary, Will L. Harding, Sweet Home; corresponding secretary, A. J. Carden, Sweet Home; treasurer, J. W. Vestal, Little Rock; executive committee—C. B. Davidson, J. H. Cherry, W. F. Blackwood, Little Rock; George P. Murrell, Austin; E. C. Kinney, Judsonia.

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HOT BED SASH

Not Glazed. 1 3/4 in. thick.

THESE SIZES IN STOCK:

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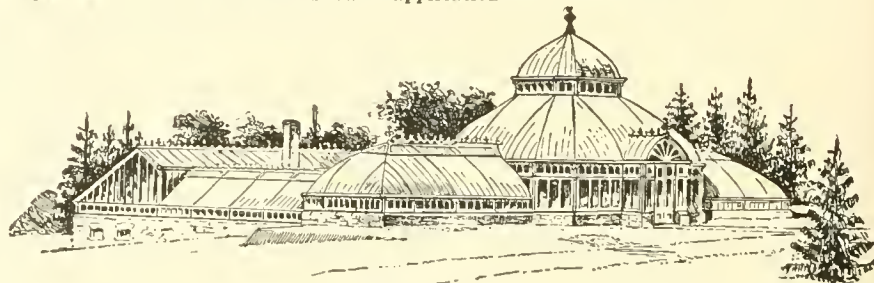
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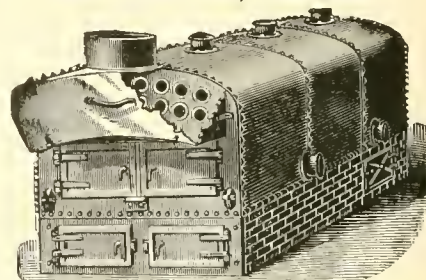
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HOT
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ENGINES

A Windmill

Is unreliable because it depends upon the elements for its power; hydraulic rams also depend upon favorable conditions and waste as much water as they secure. Steam pumps require skill and hand pumps demand labor and time. The

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Pumping Engines

are especially designed for pumping water, and from shallow streams or any kind of well. They are simple, safe and reliable, require no steam and have no valves. They require very little heat to operate them, and can be arranged for any kind of fuel.

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Extract of Tobacco
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A VERY STRONG NICOTINE SOLUTION.

Applied by boiling on small kerosene stove; evaporating pans; painting pipes; special steam cylinders; dropping red-hot iron weights or fire-bricks into narrow pans containing diluted extract; or, by syringing. TRY IT!

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The ATOMIZER
does it all.

Mixes hot and cold water, Liquid
Manure, etc. With

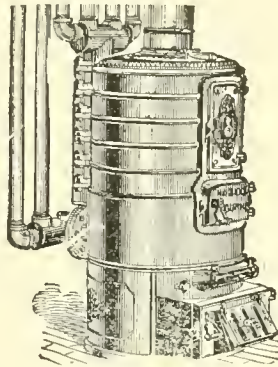
BULL DOG HOSE

and this Atomizer, he has the BEST
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BOILERS THAT HAVE MERIT.

GURNEY

HOT WATER OR STEAM.

They possess to the highest degree the essential elements
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CAPACITY FULLY GUARANTEED.

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—OUR—

SPECIAL SPRING NUMBER

March 21.

It will have an unusually handsome title page in two colors, will be very elaborately
illustrated throughout and full of good things. In short it will excel
any special number we have ever issued.

THOUGH THE ADV. SPACE IN THIS ISSUE WILL BE OF EXTRA VALUE WE
SHALL MAKE NO INCREASE IN RATES.

Send advs. early, so we can have time
to set them up in our best style.

AMERICAN FLORIST CO.

P. O. Drawer 164.

..... CHICAGO.

New Notes.

DENVER, COL.—Mr. John L. Russell has been appointed chief of police.

ROCKFORD, ILL.—Wm. Melcher has sold his greenhouse business to J. J. Soper.

DEFIANCE, O.—Mr. C. Winterich has started in business here with an acre of ground and two greenhouses each 20x100.

NORWICH, CONN.—John Dentff, who for many years has had charge of the greenhouses owned by the late C. C. Brand, died on February 15.

PEKIN, ILL.—Geo. A. Kuhl expects to add 4 new greenhouses, 25x200, giving him a total of 40,000 square feet of ground covered with glass.

BURLINGAME, CAL.—E. W. McLellan has started in business here as a grower for the San Francisco market. He is building twelve houses 100x20 feet, to be planted in roses and carnations.

CARLISLE, PA.—Jesse Robbins is adding three new houses, one for roses 18½x50, one for carnations 18½x50 and one for violets 10x50, also potting shed and office. Plans and material supplied by Hitchings & Co.

MADISON, N. J.—The greenhouses of Chas. E. Cook were almost totally destroyed by fire on the afternoon of February 20. The houses were only erected last summer. The loss is about \$2,000, fully covered by insurance.

LOWELL, MASS.—The entire establishment of C. L. Marshall on Stevens street, comprising eight greenhouses, with their contents, was almost totally destroyed by fire on the morning of February 20. Cause of the fire unknown. There was no insurance.

MARYSVILLE, OHIO.—The Marysville Floral Co. has been recently established here, having bought the old Cunningham place, erecting four new houses, three 20x60 and one 20x40. Miss Jennie Coder is secretary of the company, having charge of the plant.

PLYMOUTH, MASS.—B. M. Watson, the well-known nurseryman, died on the night of Wednesday, February 19, aged 76. Mr. Watson was a gentleman who enjoyed the respect of his townsmen in the highest degree. He was the father of Prof. B. M. Watson of the Bussey Institution at Boston.

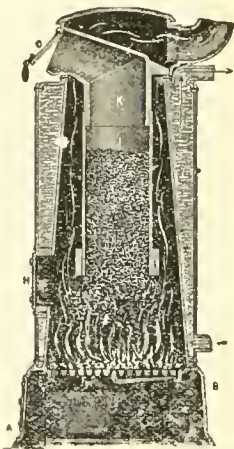
NEW BEDFORD, MASS.—Mr. M. Conroy will soon build at Fairhaven, just across the river from this city, a cottage house 33x22, with all modern improvements, a greenhouse 28x225, potting house 25x18 and barn 18x25. The total cost will be about \$3,500. Mr. Conroy's store is at 144 Purchase street, this city.

Jones, McDuffee & Stratton, Plant Pots and Pedestals

of all grades, sizes and values, direct from the best Potteries of England, France, Germany, China Japan and the U. S.

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ALL STEEL. SELF-FEEDER.

FOR GREENHOUSES,
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And all places requiring Hot Water for
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Standard Flower Pots.

Send for our new price list, with extra discounts. All of our Pots from 7-inch and upwards have our Patent Excelsior Bottom, which is a great advantage as it insures perfect drainage.

A FULL LINE OF BULB PANS.

The Whilldin Pottery Company,

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Randolph Ave. and Union St., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, N. Y.

STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere. Our facilities are unequalled.

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We desire to announce the dissolution of the firm of Sipfle Dopfel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopfel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

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Standard Flower Pots.

OUR POTS ARE OF THE BEST QUALITY.

We ship all goods from Cincinnati, guaranteeing lowest freight rates and prompt delivery.

Write us before placing your orders elsewhere.

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HANDY SASH LIFTER.

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GLASS

which is absolutely perfect for modern greenhouse construction.

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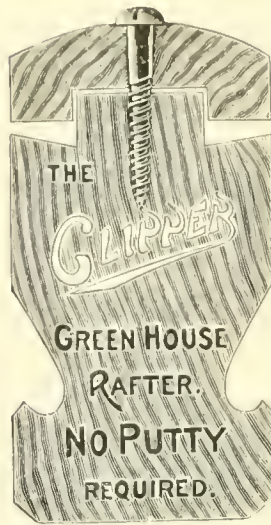
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Clear Cypress Greenhouse Material

We have had many years' experience in this line. We introduced Cypress for greenhouse construction. We have made many improvements in the construction of greenhouses. We carry in stock many different designs of Rafter, Sash Bars and everything else from the bottom of gutters up. Our facilities are large, and we are prepared to furnish on short notice material of our own designs or any special designs, and all of open-air-dried clear Cypress Lumber which we have bought for many years of one party because this particular growth of Cypress is as soft as White Pine, and has none of the knots, sap and other defects so common to White Pine. Every foot of our stock is guaranteed Spot Clear. Write for circulars and estimates. No trouble to furnish plans when necessary.

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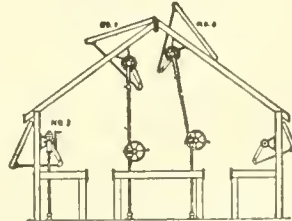
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No repairs for 5 years no chains to break as is the result with others.

Opens Sash uniform 100 foot houses A new device.

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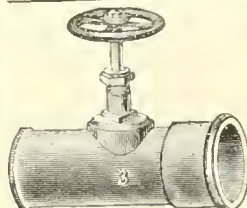
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**EVANS' IMPROVED
Challenge
Ventilating
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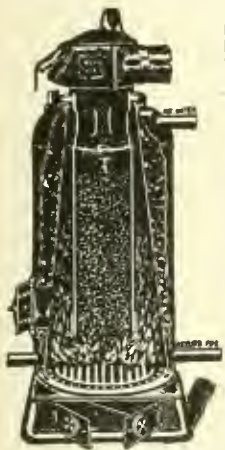
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THE HORSE IS STOLEN
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BEST IN USE
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All Steel. No coils or cast iron sections.
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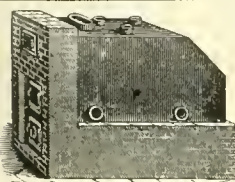
UP TO 32 FEET IN LENGTH OR LONGER.

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AND OTHER BUILDING MATERIAL.

Send for our Illustrated Book
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THE A. T. STEARNS LUMBER CO.,
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HEATING.
MYERS & CO.**

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and price list.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns

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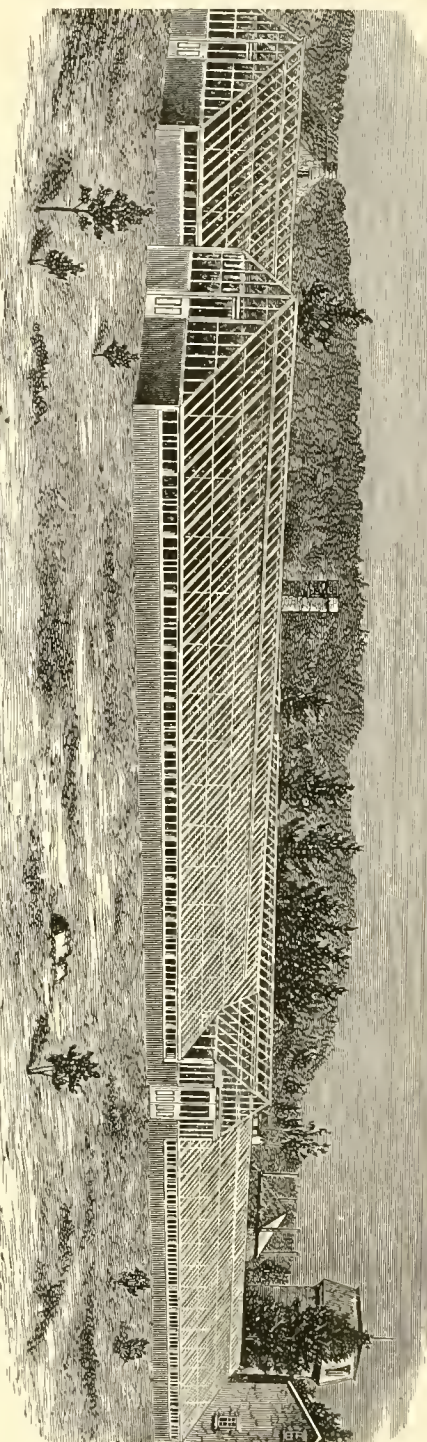
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Vol. XI

CHICAGO AND NEW YORK, MARCH 14, 1896.

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Cleveland, O., vice-president; W. J. STEWART, Boston,
secretary; H. B. BEATTY, Oil City, Pa., treasurer.
The twelfth annual meeting will be held at Cleve-
land, O., August, 1896.

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SPRINGFIELD, MASS.—Rev. W. T. Hutchins delivered an entertaining address on floriculture as a popular art before the Amateur Horticultural Society on Mar. 6.

HAVERHILL, MASS.—During the recent storm and freshet the city greenhouses, which are located on the banks of the Merrimac River, were inundated and the contents ruined.

If you have not already sent your adv. for our Special Spring Number mail at once or you will be too late.

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NEXT WEEK comes our annual special spring number.



Carnations in the Exhibition Hall.

Why is the carnation so short lived in our exhibition halls? Experience with the displays made at the meetings of the Carnation Society and elsewhere during recent years has been such as to cast grave doubts upon the title of the "divine flower" as now grown, to its old time reputation for being among the longest-keeping flowers after cutting. Abundant evidence may be found, however, if a little experimenting is indulged in, that the life of the carnation flower depends greatly upon its surroundings, and that under favorable conditions it may still be kept in good condition for days and even weeks. Blooms placed upon the parlor mantel for instance, will sometimes look well for a fortnight, while flowers of the same variety picked at the same time and displayed in the store or exhibition hall may be found "fast asleep" inside of twenty-four hours. What is the cause? Below we give the views of some of the leading carnation growers on this vital question, also a few opinions from retail dealers upon the same subject.

My attention is called to the disappointing feature in the carnation of going to sleep when on exhibition. This curious feature is to me an enigma, a physiological conundrum. What is the cause? I study over this problem and when I think I have arrived at a solution, there are unexpected developments that upset my whole theory. I was much surprised last fall to see the flowers on well grown plants go to sleep as soon as the cut blooms; I credited them with more resistance to this mysterious influence. These contradictory observations, especially about gaslight, are indeed very perplexing, although there is no doubt that the gaslight has a great deal to do with the mischief. May not the fumes of the gas, the moist breath of the people, combined with the evaporation from plants and vases, rise to the ceiling, and settle down through the calm of the night? Generally when our exhibitions take place nights are cold. The exhibition room, moderately warm for the comfort of the visitors, is considered too warm for the flowers and heat is shut off after closing in the evening, and considering the welfare of the tender plants on exhibition and for decoration, everything is kept closed. The gradual cooling and calmness of the room will allow the poisonous gaseous

vapor to descend. I think if the exhibition room could receive a thorough ventilation after closing at night, it would be much to the benefit of the cut blooms and every other thing. Cut blooms subsist entirely on moisture, absorb moist air eagerly. A plant has the power to discriminate in the selection of nourishment through the roots, but has no more power than we have regarding air.

FRED DORNER.

Why do carnations close so soon after being exhibited at our shows? The reason for such conduct on the part of nearly all varieties of carnations at times is very difficult of determination and is one of the very annoying circumstances in connection with carnation exhibits. I think, however, that one of the principal causes is the impure atmosphere of many of the rooms or halls where exhibits have been held, especially in this case where rooms are lighted with gas and where there is deficient ventilation. We all know that over-heated rooms are especially destructive to carnation blooms, and if in addition there be escaping gas the trouble is intensified. I never could understand why nearly all well known sanitary rules are set at naught at our flower shows. Plenty of good pure air is as essential to the keeping of our carnation flowers in a perfect state after being cut as the same constituent is necessary to preservation of physical health. Where electric lighting has been used for illumination of the room, the complaint of the unsatisfactory keeping qualities of our carnation flowers has seldom been heard.

My observation has demonstrated that blooms of the same variety exhibited under, apparently, the same environment would in the one case remain perfectly fresh for a length of time while in the other case their petals would close almost immediately on their being exposed; where such results obtain it would seem conclusive evidence of a lack of vital force in the organic development of the flower itself; to the eye, however, when cut from the plant, it showed all the qualities of a perfect flower, but it would not close and wither unless there was lacking some inherent property indispensable to its keeping qualities after being cut. Observation teaches that plants soon after being lifted in the fall and before root action is again thoroughly established produce flowers that soon bury themselves in sleep after being cut, and just in the measure we obtain normal, well developed flowers through healthy root action just in such measure as the root action proves vigorous and normal, are the flowers perfect in texture and tissue, and capable of maintaining their form and charm after being cut.

Over-stimulating the plants by gross feeding with unsuitable manures and

chemicals tends to enervate and weaken the plants; under such conditions the plants produce flowers lacking the qualities of durability. Where fertilizing is carried to excess and without discretion the invariable result is a weakening of the plant and a consequent lack of vital force which would necessarily render the blooms liable to go closed soon after being cut.

The susceptibility of not a few varieties to close their petals under favored growth and cultural development proves that certain varieties lack the inherent qualities requisite to produce good bloom which will stand after being cut. There are varieties that fail to maintain a proper development of the bloom on the plants, this then must be an organic defect which cannot be remedied by the most careful cultural skill. The only safe course is to avoid all such varieties. A too close atmosphere, lack of sunshine, over heated greenhouses, the undue withholding of fresh air all tend to undermine growth and weaken tissue, consequently we have flowers lacking force and vitality. This is a cause which can be remedied by intelligent, careful culture.

The theory advanced by Mr. Dorner in a recent article attributing the self pollination of flowers—or rather their accidental fertilization—when grouped in bunches, has much to do undoubtedly, with the sleepiness of carnations after being thus handled. All students of plant life will have observed the almost universal law governing the action of flowers after fertilization, their functions having served the end for which they were formed they invariably wither and cease to be present further as active factors. Undoubtedly this has something to do with the fleeting character of many carnations which so quickly lose their charm of color and form.

The above theorizing may be in the line of a solution of our trouble with our carnation blossoms at exhibitions and shows, or it may possibly tend to mystify the subject to a greater degree—be that as it may your correspondent believes there are grains of truth which may be helpful.

E. G. HILL.

The poor keeping qualities of the carnation as an exhibition flower has occupied a great deal of my attention. So far I have not been able to solve the problem. The only way would be to make a comparative test. For some time I have held to the idea that carnations would be better in booths, fitted up for that purpose. It would, of course, involve a great deal of trouble and expense, but I would like to see a trial made carrying out this idea at the forthcoming meeting of the American Carnation Society; on a small scale, of course, for the purpose of making the test. It would be an excellent idea, I think, for the American Carnation Society to offer a premium for the best device for exhibiting carnations with the view of prolonging their keeping qualities.

The trouble seems to be equally as bad whether the lighting is done by electricity or by illuminating gas, so that we must look to some other cause than that of the unconsumed gas, which will escape when this is used for lighting the buildings in which the exhibitions are held. Quite a number of experts have passed their opinions upon this matter, but comparative tests in the way of experimenting are needed at the present time in order to get at the bottom of the difficulty, and now is a good time to take the matter in hand.

EDWIN LONSDALE.

Probably the chief cause of carnations not standing up better at exhibitions is because exhibitors make an effort to show the *largest* flowers that can be produced. Consequently the majority of blooms are over-developed and already on the decline before being placed on the tables. The same thing would occur if roses were staged blown to their fullest size.

Carnations cut at the proper stage of development the day before being staged and placed in vases of pure cold water in an above-ground room (no ice) held at 40° to 50° and staged the next morning should stand two to three days provided the exhibition hall is not so permeated with ammonia, gas, foul air or so exposed to sharp draughts as to destroy the flowers.

Keeping the houses too close and moist in order to develop large blooms also tends to destroy the keeping quality of the flower. To the desire to produce large blooms, and to imperfect methods of growing and handling the flowers may likely be charged the bulk of blame for short-lived flowers. The balance belongs to improper exhibition halls.

When shipping flowers we always keep a few flowers of each day's pick as a check on complaints of our flowers not keeping, and frequently we find the blooms remain in good condition two or three weeks.

C. W. WARD.

In my opinion the trouble is to be found in the fact that we let those carnations wanted for exhibition mature too long on the plants. Everybody who grows carnations knows that to be successful as an exhibitor the main point is to show carnations as large as possible and to procure them large enough we are compelled to let them remain on the plants to develop to their fullest extent.

I will cite an instance which I think will bear out my assertion. Last Christmas my wife wanted some carnations for the dinner table. To procure these I took half of those that had been on the plants ("held back" as you call it) for about a week. The other half I picked were only three-quarter developed, or in other words flowers that would hardly pass for A1 carnations in the New York market. After being on the table twenty-four hours, the full developed or large carnations were all closed up (gone to sleep) but the half-opened ones remained nice and fresh almost for the whole week. I think if any of your readers will try the experiment they will come to the same conclusion. But how to overcome it for exhibitions I don't know, for we cannot be expected to show half or three-quarter developed flowers at exhibitions, surely.

E. ASMUS.

I am afraid I can throw very little light on the subject. I can of course testify to the fact that blooms will keep for at least a week in our sitting room or parlor but similar flowers placed on exhibition will fade in a day. We know that some varieties will keep longer than others, and on examination it will be found that the ones that go to sleep the soonest are those that make seed the easiest. A flower that is fertilized goes to sleep directly. Still this does not to my mind entirely explain the matter, for flowers that in ordinary conditions of trade are good keepers hardly stand up a day at an exhibition. Many theories have been advanced to account for the fact which it is needless to repeat here, but I think I can safely say there is no explanation so far that promises to lead us out of the difficulty. A florist friend the other day remarked to

me that flowers kept longer in his kitchen than the other rooms of his home. The dampness and steam always present in a kitchen he thought aided their keeping qualities. If this is the case would it not be a good idea to take means to secure a damp atmosphere in exhibition rooms?

W. R. SHELMIRE.

To have carnations in good shape for exhibition purposes they should be grown somewhat with that object in view. In the first place they should be grown cool so as to have plenty of substance both in the stem and the flower; in the second they should be plucked before they are fully developed and allowed to develop in the water in which they are placed; if this is followed out and the flowers put in a cool clean place over night away from the exhibition hall they should be a bit better the second day of the exhibition over what they were the first.

It would be folly to attempt to have a carnation show of more than two days' duration, as there seems to be something in the atmosphere created by a crowd that is absolute poison to the carnation, but if the air is completely changed or the flowers taken to a fresh cool room they can be had in good condition on the second day.

ALBERT M. HERR.

The tendency of carnations to "go to sleep" so early after being placed on exhibition is certainly unfortunate, but so far as I know it remains an unsolved problem. I believe the absence of some gases in the air to be the chief evil. We can put blooms of carnations in our shed, which is exposed to draughts, dust and great changes of temperature, and with always the same result with all varieties, that they will keep in good condition for a week and sometimes for twice that time. We find equally good results in the dwelling house, provided they are not in too warm a room.

EUGENE DAILLEDOUTZ.

My opinion is that the rage for large flowers is one of the causes of carnations going to sleep at exhibitions. Disbudding makes both flower and seed pod more fully developed, also the pistils, and more and better pollen which as the flowers are cut and handled two or three times is shook upon and fertilizes them. Another cause is the warm and very poorly ventilated rooms. It will be noticed that flowers in the spring and fall always keep well before people begin to heat their houses. I have no trouble in keeping carnation blooms from six to twelve days in a cool room where the thermometer will stand about 42° nights and 55° day time, providing they are not handled much. Another reason why they do not keep at the present day as well as they have done in the past is I think that we used to always pick the center flower short stemmed and then waited for the next two or three buds to open before picking long stemmed blooms which if you will notice hardly ever have any well developed pistils. These are some of the causes which I think account for the poor keeping qualities of carnation blooms.

WM. NICHOLSON.

Our experience is that under proper conditions the finer grown and fancy carnations keep about as well as the older sorts used to. Possibly the finer varieties require a little more attention, fresh water and air, clean vases, etc., to keep them in best condition. They need extreme care and attention in growing, and



CARNATION HOUSE OF MR. JAS. C. MURRAY, PEORIA, ILL.

you must continue it after they are cut, if you want good results. We find we cannot keep them in our cellar at store, although we used to think it was one of the best places to keep flowers. They lose color and close up; to use a trade expression are "sleepy" after one night's exposure to air of cellar, nor do they keep well in refrigerator in store, though much longer and better than they do in the cellar. We have found carnations to keep best in a close box out of doors. We have such on our greenhouse roof, back of store, covered well to keep them from freezing or with door partly opened into greenhouse in very severe weather; can keep many kinds in good condition for a week in these boxes. Have just examined a vase of fancies that are in good condition, though some of them came in three or four days ago; the older ones just beginning to show the effect of several day's keeping. Have also kept them well in empty room in house, atmosphere rather dry with no fire heat.

Some varieties keep much better than others. Have found that most of the smooth-petalled varieties close up quicker and lose their fresh appearance sooner than the fringed ones. In our experience have also found that carnations last better in fall and winter months than they do in the early spring months. Flowers seem to be softer and not of as much substance after the weather gets warm and the plants commence to grow freely. We have handled carnations largely in our retail trade for many years, and the above is about our experience up to date. Have tried many plans, but the close box in open air or shed has been the best for us.

Philadelphia.

PENNOCK BROS.

The reason why carnations go to sleep or keep so poorly after being cut and put on exhibition is the poisonous or impure air with which they are surrounded. I have seen them put in some buildings and after remaining for a week come out apparently fattened or improved in appearance; in other places they close up and are unfit to look at inside of twenty-four hours. I have found from years of experience that where there is little or no illuminating gas used is the place for carnations; they will keep in good condition in any temperature from 35° to 75° pro-

vided the water and air are sweet and pure.

The firm of which I was a member for a good many years, after trying to find a suitable place in their large cellar and store to keep their carnations and violets were obliged to fit up a place out-of-doors, running the risk of frost and changes of temperature, and putting up with all the inconveniences for the sake of getting away from the gas that found its way from the sewer traps, street, or next door. They have found it a good paying investment, being able at all times to give their customers carnations that are wide awake and have not the tired, sleepy appearance of so many that are handed over the counter or seen at our shows. There are plenty of conservatories in Philadelphia with good exposure, well-heated and properly looked after, where it is impossible to keep a carnation or geranium plant in bloom during the months of December and January, when the weather allows you to give very little ventilation. I have seen good healthy plants of both kinds in bloom put in and go the way of the cut ones, asleep or closed up in twenty-four hours, never to awaken or open another flower, unless they were taken to other quarters. I do not know how to overcome the evil entirely, but I would advocate holding flower or plant shows in buildings that are lighted by electricity and properly ventilated. This I believe will go a long way towards overcoming the trouble.

Philadelphia.

JOHN WESTCOTT.

Answering inquiry of recent date, I would state that my experience with the fancy carnations has been very discouraging and similar to that of others. I have found that they have a tendency to shrivel up, if not sold the same day that they come in, although my store is light, well ventilated and very cool. The only reason I can ascribe for it, is that they are forced in too intense a heat.

GEO. M. STUMPP.

Mr. Murray's Carnations.

The accompanying engraving gives an interior view of one of Mr. Jas. C. Murray's carnation houses, Peoria, Ill. The photograph and liberal bunches of flow-

ers of each of the varieties represented in the picture were sent us by Mr. Chas. Loveridge, manager for Mr. Murray.

Those on the left bench in the picture are Portias, on the left side of center bench Scotts, right side of center bench Silver Spray, and on the right side bench Daybreak.

The flowers sent us of these varieties were all excellent and the Portias were specially good.

The carrying of a large legible label on each variety, as seen in the picture, must add very materially to the interest of the house to visitors and possible purchasers. We commend this feature as of decided value to growers who retail their flowers and whose houses are visited often by possible buyers. It is good policy to put your customers on familiar terms with the flowers they buy.

Carnation Notes.

With the recent carnation exhibition one is reminded again, of the going to sleep of the exhibition blooms and one remembers too that commercial flowers sometimes do the same thing in the hands of the dealer. In some of my notes some time ago I called attention to the danger of well developed flowers being put to sleep in the course of handling, packing, and thumping of the packed boxes, by shaking the pollen onto the pistils causing fertilization, and the closing of the petals, going to sleep. I had some complaints from some of my customers and they thought we left our flowers too long on the plants. Acting on their supposition we cut them younger, and subjected them to a longer stay in the water in our flower cellar before shipping, they proved better keepers, but were hardly as large blooms as when they develop more on the plant. This set me more to thinking over the matter, and by a closer investigation I came to the conclusion that carnations should be cut before fully developed, some varieties when rather young (that is before their sexual organs are fully developed), and set in water in a cool place for 24 hours before shipping or selling. Now most everybody will do that, as far as the placing in water is concerned, and would hardly need to be told to do so. But has everybody thought of and investigated what is effected by this procedure?

We grow our flowers in an average temperature of 60°, counting day and night. They could be grown in a temperature of from 45° to 50°, but would require more time and be therefore less profitable. The even development of a bloom consisting of ovary and pistil, stamen and pollen as the seed producing organs, and the calyx and petals grouped around them, requires the temperature first mentioned, 60°. In a lower temperature the seed producing organs will cease growing, and when too low may receive a check making them incompetent. Calyx and petals, more of the nature of the leaves, will continue their growth in a lower temperature. We do not want the seed, for if a fertilization is effected the petals will close up at once to protect the tender ovary. We want the flower, calyx and petals, color, size and form. Ovary, pistil and stamens forming such a small part, are not considered in a commercial flower, but without them, the heart and life of a bloom, petals are impossible.

So our aim is to encourage an even development of all parts in an average temperature of 60°, cut the blooms before fully developed, place in water in a temperature of from 45° to 50°. This lower

temperature will check the growth of the seed-producing organs, but is sufficient to continue the growth of the petals, and more, to direct the nourishing elements contained in stem and leaves to the growth of the petals, that in a higher temperature would be all absorbed by the seed-producing organs. If the flowers are kept in a still lower temperature, say 40° and below, action, the moving of the sap, absorbing water at the cut, will stop entirely, and if the air is dry they will wilt standing in the water. So too low a temperature is just as detrimental as too high a one.

Not less important to the cut bloom is the water it is placed in; this will necessarily attain the same temperature as the atmosphere. Water is absorbed at the cut by the severed cells in the stem, a fresh cut every other day will much promote the absorption of water, and help to keep a better balance between evaporation and absorption, as also a cool moist air will do, by causing less evaporation. Flowers cut with too long stems, cut down in the woody part of the plant, will not well absorb water, hence this impairs their keeping. Wm. Scott and Albertini will not produce seed, and can be left longer on the plant without impairing their keeping quality; but should not be mixed with other varieties, as their pollen is very productive and may be instrumental in putting others to sleep.

Gone to sleep! How much that phrase implies; how the carnation grower dreads it. When the blooms are dead or dying exaggeration comes to an end too. But there is to some extent an exaggeration with this phrase. We all know going to sleep means dead. But when this phrase as we understand it, is used on varieties, that in their form have a curved, wavy or crimped appearance without the least show of relaxation in their petals, it is an exaggeration and an injury to such varieties. I had among my seedlings varieties of this character, beautiful and noble in form, being just as good keepers as any variety, but would hardly dare to bring them before the public, without having them pronounced as being sleepy. And this all because a carnation bloom in its last stages will close up the petals, like many other flowers, only going to sleep, and not drop or wilt. This is why the straight petaled varieties are more in favor, although they appear more formal and stiff. The star shaped angular form of Lizzie McGowan is excused, while there is much complaint of Alaska and other varieties opening in a curly crimped way.

FRED DORNER.

Arsenical Solution for Rust.

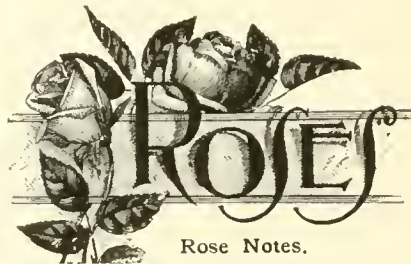
Kindly correct the prescription for the making of the arsenical solution for carnation rust, it should read:

"Arsenic acid C. P., 616 grains; Bicarbonate potash (not bromide), 1236 grains; water, 4 ounces. Heat to make solution; add water to make the mixture measure 5 ounces; use 1 ounce to 8 gallons water. Be careful not to inhale the fumes when heating and mixing."

The mistake occurred in the indistinct writing of the abbreviation by the druggist. H.

AN ITEM has recently been making the rounds of the daily press to the effect that Messrs. Hopp & Lemke, of Grand Rapids, Mich., had sold their new carnation Morello to a New York florist for \$10,000, quite a comfortable price. In response to an inquiry Messrs. H. & L. write as follows: "Referring to the item regarding

our carnation must say it was news to us. We did not know of the sale until we saw the item in the daily papers."



Rose Notes.

Hybrids that are expected to be in bloom for Easter should now have the buds half developed; if they are a little late it will be good policy to increase the temperature so as to hurry them along. A night temperature of 60° will not hurt them for a week or two, in fact it may improve them by lengthening out the stem, and in these times the length of stem counts for just about as much as size of bloom when offered for sale. The demand for hybrid roses after Easter is usually light and prices are seldom remunerative, hence the importance of having them in the nick of time. Plants in pots, boxes or on benches the crop from which has already been cut, should have immediate attention; if in pots and they are good enough to run another year, they should be turned out of the pots, the ball reduced about one-half, and be repotted into fresh rich soil, in well drained pots of the same size as those they previously occupied. It is important that the repotting take place immediately after the crop is cut off, there is usually very little foliage on the plant at that time, consequently the check received by disturbing the roots is very slight, but if the work is neglected for three or four weeks, there will be a lot of soft young growths to wilt and exhaust the plant, or else they must be cut off and lost. If the plants are in boxes and are in good shape they will run all right the second year without being disturbed, the same if in benches. The opinion prevails in some localities that such roses as Brunners and Laings should bloom only once, and then be replaced by young stock, but it seems to me that this is a very short life for a hybrid rose, and as far as my experience goes I think that with the proper treatment they are good for a number of years; it always happens, however, that a good many plants in the center of the bench fail to start off as quickly as the rest, and soon get smothered with the larger and stronger ones, so it becomes necessary each time they are rebored or benched to discard all the weakly ones and replenish with young stock.

Those making a specialty of the spring plant trade, and who grow a number of hardy roses for this purpose, should now bring them from the cold frames and place in gentle heat; in pruning such it is found best to cut them hard back, as they then break much stronger and make a nicer shaped plant. To be right for Decoration Day they should have about ten weeks, a night temperature of 45° to 50° to start them in will be found the best. In order to make room for the extra Easter stock we are often compelled to throw out a bench or two of Tea roses much to our regret probably, unless we chance to have a batch of consumptives somewhere, then of course we are glad for an excuse to pull up stakes and say "good bye." If however, the plants are healthy and not too large and are of the right kinds, they or part of them may be

potted into 6-inch pots and will make very good salable plants for Decoration Day. I have observed that these make much more satisfactory plants than any that are started this season; Meteor, Kaiserin, Testout, La France, Mme. Hoste, Bon Silene and Papa Gontier all answer very well for this purpose.

If it is necessary to put in more cuttings of any of the Tea roses the sooner they are got into the sand the better. All young stock should be kept moving, checks caused by standing too long in small pots often prove disastrous to the best of plants.

In the rush of spring work when we find several jobs waiting for each pair of hands, it doesn't pay to neglect the plants in the benches, rather than do this it will be economy to hire more help; the result of neglect will be greenfly, red spider, etc. Feeding must be attended to regularly if the best results are expected. Those planted early in the season will be greatly benefited by having a top dressing of half soil and half manure, the latter well rotted, fresh manure is ten times worse than none at all. Where it is difficult to procure the right kind of manure at the right time we may use as a substitute sometimes to good advantage wood ashes or soot; as a top dressing it may be applied at the rate of from 100 to 150 pounds to every 1,000 plants. If a considerable quantity of bone has been put into the soil earlier in the season it is hardly possible that more will be needed at this time, for this reason I would recommend a fertilizer rich in potash rather than one the principal ingredient of which is phosphoric acid.

ROBT. SIMPSON.

Short-Span-to-South for Rose Growing.

What is the general opinion of short-span-to-the-south houses for rose growing? Is it a success or are the old long span to the south better. SUBSCRIBER.

Among rose growers the prevailing opinion seems to be in favor of the regular three-quarter span house; for myself I am unable to state which I prefer at present, after another year's experience and observation my preference will probably be more decided, one way or the other. One thing is certain, we have cut just as good flowers, and have just as fine plants in the short-slope-to-south houses as in those of the other kind, on the other hand I think the space inside the house can be utilized more fully, and the plants receive their full share of light, air and sun all over the house more completely in the three-quarter span house. It has been claimed for the new style as a great point in its favor, that a block of houses can be built together, with only gutters separating them, without any risk of one shading the other, if this were true it might be worth a good deal to those who are cramped for space; but the fact is these houses shade one another very considerably during the short days of winter, too much so to make them entirely satisfactory for rose growing. There is a little saving, however, in space required, for while a set of three-quarter span houses must stand apart 20 feet to prevent shading the same result is obtained with an allowance of 10 feet between the short-slope-to-south houses. The difference in cost of construction between the two kinds of houses is trifling; it will require about as much glass for one as for the other, the only saving being about three feet in the length of the posts on the north side and a corresponding amount of



MOVING A TREE IN FULL LEAF IN AUGUST—PARIS.
THROUGH AMERICAN EYES.

sheathing and weather boards in favor of the new style house.

My ideal house built on the short-slope-to-south plan, would be 22 feet wide, the sides 5 feet above ground line, with a 10 feet 3 inches rafter on the south side at an angle of 45 degrees, while the north rafter would be 15 feet 6 inch long at an angle of 32 degrees. Ventilators at the ridge should be on the north side and opening from the top, also ventilators 30 inches deep on both sides. The arrangement inside the house would be one solid bed in the center, leaving 30 inches all round the sides for the main walks, the bed should be divided into three by making two paths 15 inches wide, this would leave three beds, each about 5 feet wide; the one on the south side should be raised 21 inches above the path on the outside, the center bed six inches higher, and the north bed six inches more.

To keep the beds from becoming cold and wet they should have a good foundation of loose stones, and each one should have a 2-inch hot water pipe running through the stones to give a mild bottom heat. One or two heating pipes should be arranged on the side of each center walk and and the rest come under the ventilators on the sides of the house. This style of house has given and will continue to give general satisfaction.

ROBT. SIMPSON.

Bride Failing to Bloom Freely.

H. F. D., New Hampshire, sends a Bride rose plant dug out of the bed for examination; the plant with others was growing in a house with carnations in solid beds, in a night temperature of 50° and day temperature of 60°, plants have failed to make any satisfactory growth, and have produced no good flowers thus far.

The plant arrived in a very fresh condition; the roots showed traces of cell-worm, but not enough to interfere with the growth and healthfulness of the plant to any great extent. The foliage was all disfigured with mildew, a good deal of which was fresh and active, and the ends of the shoots were each covered with green fly; these two pests allowed to have such a grip on the plants are well able to stunt and hold them completely

in check without any help from other sources. Would advise H. F. D. to give the heating pipes a good coating of lime and flowers of sulphur as a cure for mildew and to either fumigate three or four times in succession or lay tobacco stems on the steam pipes, or along the sides of the paths, to get rid of the green-fly. The chief trouble, however, I think, and the one that has helped to aggravate the others, is the low temperature; roses will not thrive in a night temperature lower than 55° and most kinds prefer from one to three degrees more heat than this. The plant received had the stunted appearance that Tea roses generally have when grown too cool. If H. F. D. will increase the temperature of his house to 56° at night, and give air at 65°, increasing the amount of ventilation as the temperature rises until in the middle of the day with a bright sun his house runs up to 75° to 80°, I feel sure it will not take long to start his plants into a better growth. The extra heat will not harm the carnations in the east, on the contrary it will prove beneficial. One or two waterings with lime water used at the rate of one peck of lime to 50 gallons of water may sweeten the soil and help the root action; a little nitrate of soda sprinkled on the surface (say about two pounds to 1,000 plants) same repeated once in two weeks, would help to give them a start.

ROBT. SIMPSON.

White Rambler Rose.

Replying to the inquiry by W. E., the above named rose is really in existence. It was raised two years ago and was a true sport from the White Pet; it was not from Felicite Perpetue as W. E. thinks it may have been. It will be exhibited in London next spring.

A. LETELLIER & SON.

Caen, Calvados, France.

Through American Eyes.

PARIS.

Much has been said and written of the French, and more particularly of the people of Paris; of their skill in everything pertaining to art and architecture, and certainly their wonderfully beautiful public and private buildings, their magnificent galleries full of the most beautiful

paintings and other works of art, together with the fact that the Parisiennes are the acknowledged leaders of fashion, all go to show that the French are a truly wonderful people. With all these evidences of refinement and taste it was expected that here would be found the greatest development of nature's natural adornment, beautiful flowers. In this respect however the expectations of the visitor are not realized.

Whether it is because of the proximity to the warm climate of the South of France making the forcing of flowers in greenhouses unprofitable on account of the competition of the outside stock, or from some other cause not apparent, the high culture of cut flowers particularly is not to be compared with what one sees in the vicinity of the large cities of the United States. In fact there are few if any large establishments where the growing of cut flowers or plants is carried on about the city of Paris. Belgium supplies the palms and many of the orchids, and no roses or carnations are forced under glass for cut flowers. There are numbers of gardeners in the outskirts of the city who do business on a small scale growing plants in frames, which they bring to the markets at the Church of the Madeleine and along the Seine near the Cathedral.

The Church of the Madeleine is a very large structure, and the wide pavements on either side have been set apart for the sale of plants and cut flowers. A regular market is held three days of the week and every other morning a few regulars are to be found principally with cut flowers, or rather bouquets, for that is the way the street flowers are generally offered. The market is held under movable sheds or awnings which are erected over each side of the pavement, leaving a wide aisle down the middle. These sheds are removed as soon as the market is over. At the time of our visit, the third week in August, the stock of potted plants consisted of a few palms and ferns and quite an assortment of plants in bloom. There were some well grown fuchsias, *Lilium album* and *roseum auratum*, *Hydrangea paniculata* well flowered, perennial phlox, ericas in variety, only fair however, dahlias in pots, asters and chrysanthemums, these latter being the small flowered *Le Neige* and other varieties very dwarf, they seemed to have been grown in small pots and put a number together in larger ones. *Bouvardia jasminoides* seemed to be a favorite and was well done by several growers. Very full 6-inch pots of *tradescantias* were seen, and there were pots of oleanders and hibiscus. There were a number of small baskets of geraniums and other plants, each of one kind, which looked pretty and salable. Tuberous rooted begonias were to be seen, but nothing extra. There were quite a few pretty roses, *Aimee Vibert*, *La France* and *Capt. Christy* being among the number.

There were quite a lot of bouquets made up on some of the stands, gladiolus, lilies, asters, roses, *mignonette* and phlox were the flowers mostly used; they were generally set in a cornucopia of white paper. On many of the street corners there are flower stands not next to the wall but on the extreme corner of the pavement in a little permanent house probably four feet in diameter and generally round; these are mostly managed by women. Some women have a little push cart piled high with flowers. Some fakirs carried a sort of pannier on their backs from which they sold. They all seemed sharp and quick to notice and very eager to sell.

The Halles Centrales, or central market

is a busy place from 5 to 8 in the morning; it is where the stores of Paris obtain their stock of all kinds of marketing. There are two very large structures occupying probably 300 feet by 150, with a wide wagon way down the center of each. From this central passage wide aisles bordered with stalls crossed the building on either side. Outside the buildings on all sides was a wide open space or street, which when the market opened at about 5 a. m. was entirely occupied by the poorer class of gardeners and florists who could not afford to rent stalls. As one approached the market and when quite a distance away men and women would be passed carrying huge baskets on their heads or shoulders containing all sorts of marketing. It seemed remarkable that they were able to carry such a load and pilot it through the crowded and narrow streets, such as were seen as one neared the market. It seemed impossible for any one to shoulder such a load without assistance. When within a few blocks wagons and push carts were drawn up on the sides of the streets and porters from the market were busy delivering purchases. Everything has to be carried out by hand, or head and shoulders rather, as it would have been impossible to get even a push cart or barrow along the packed streets. It reminded one of the crowds on the principal thoroughfares of any of our large cities on election nights. When the large public space about the markets is reached it is a grand scrouge and push first this way and then that while all about you the excited buyers, and sellers are crying out in their efforts to get the most they can for their goods and money; it seemed to us a perfect imitation of Babel. There were quantities of tomatoes all in small handle baskets and a great deal of other garden produce all in small lots as if from small growers. Large quantities of outside or field grown flowers were to be seen, all being sold apparently by the people who raised them. Asters, stocks, gladiolus, dahlias, pink candytuft, perennial phlox, and some roses were the principal flowers. The absence of sweet peas was noted; not a spray was to be seen, and very few pinks. Most of the bouquets arranged were of the regulation market style, flowers crowded together with no idea except to make it large enough to look a good deal for the money.

Inside the building there seemed a better class of flowers and some good specimens of Brunner, Magna Charta, Paul Neyron and La France with quite long stems were seen. Orange blossoms without stems lying out in little heaps on paper were waiting for buyers. One of the aisles was filled on both sides with people apparently doing a retail business. In addition to cut flowers and bouquets they had large stocks of bead designs mostly in the form of wreaths. These piled up and extended into the aisle so that there was scarcely room to get around. A number of porcelain wreaths were made up of such natural looking flowers that at a little distance one quite noted A. F., on being asked to select the natural, picked out the artificial and would not be convinced of his mistake until he had made a close inspection.

At 7:15 a. m. a bell is rung and as the outside market must be over by 8, such a hurry and scurry takes place to get cleaned up; large push carts come in and all the refuse is gathered up, and by 8:15 all evidences of the outside market is gone. Should any salable stock be left over it is sold at auction for the benefit of the poor. The porters use large baskets

about three feet by five, which they rest on their shoulders and back of their heads, using a kind of crescent shaped yoke or cushion which fits over their forehead and is quite full where it lays on the back of their necks. Others have large panniers, which they carry on their backs by means of shoulder straps and another contrivance used largely is like a small ladder about six feet high with a platform at the bottom; this is also carried on their backs, and a man carrying this can easily push along through a crowd with quite a load.

The Jardin des Plantes was quite a disappointment; there may have been some things to admire, but if so they were overlooked by those who were looking for them. Plants without labels are had enough, but labels without plants are worse. The large conservatories were closed to the public at the time and may have contained something noteworthy.

The cut flower stores of the city were a disappointment; there were several quite pretentious places where there was considerable taste displayed in the arrangement of their windows. Several were set back from the street line some three feet so as to leave room for outside show. All the principal stores had baskets of growing plants, mostly foliage, tastefully arranged and plentifully bedecked with ribbons, in fact no basket seemed complete without its bows and streamers of ribbons. One araucaria was seen with a large bow between each whorl of leaves, a large one at the bottom and graduating in size to the top of the plant. The plants were arranged in baskets with very high handles, one all dark dracaenas with a border of maidenhair and tied with blue ribbons looked pretty and effective, another planted with araucarias, anthuriums in flower, Japan lilies and a spray of cattleyas was tied with an immense bow of bright red ribbon.

A basket of cut flowers made of long stemmed white *Hydrangea paniculata*, white Japan lilies, long sprays of *Bouvardia jasminoides* and white erica tied with wide white ribbon, was very effective. Another of La France and Niel roses tied with blue ribbon looked inviting and salable. Vases of fair quality roses were to be seen, of such varieties as La France, Capt. Christy, Jacqueminot, Paul Neyron and Brunner. *Bouvardia jasminoides*, very fine sprays, seemed to be a favorite, as it was seen in all the windows. Bouquets of orange blossoms about four inches in diameter, made rather close and covered over entirely with a thin white lace with a heavy border and tied with long narrow ribbons, appeared to be the conventional bride's bunch, as it was seen in several windows. There seemed to be a much better summer trade in all the European cities during August than in the United States.

In one of the small parks in the residence portion of the city there were some pretty landscape effects. Paths bordered with shrubbery, which in turn was edged with flowering and foliage bedding plants on the lawn side, looked very beautiful from across the lawn, but a photograph unfortunately conveys no color idea, which is really the life of such a view. Happening to be in the neighborhood of the Eiffel Tower, after being refused admission with a camera, the unusual sight of a large tree in full leaf coming toward us on the bridge over the Seine was the occasion of some rapid work to get the accompanying picture. It was mounted on a low four-wheeled truck drawn by three large horses and had quite a con-

siderable body of soil and roots. The trunk appeared to be at least 9 to 12 inches in diameter. We would like to have asked some questions about the chances of the success of this move, but refrained.

The famous cemetery Pere Lachaise is an interesting place to visit. Inside the gate one is immediately relieved of anything that looks like a camera, and several very interesting sights had to be left behind. There is some pretty bedding for a short distance and then the entire cemetery is taken up with tombs and monuments; the walks are narrow and there are very few wagon ways. Many vases for plants are to be seen and nearly all in good order; there are very few grass plats, the entire space being occupied by the tombs and tombstones. The most interesting part from a trade standpoint was the decorations of the tombs and lots. It was wonderful to see the immense number of bead designs; they were on all sides, not a single inclosure was seen that did not have several, and many lots were piled level with the railing and containing at least 50 or 60 of these glass bead flower emblems. The beads of different colors are fashioned into the shape of flowers and vines and made into various forms, mostly wreaths, some of which are of immense size. In some lots the colors of the designs were entirely blue and white. Some contained all white and white wreaths of cut flowers as well. Over many of the graves there was a glass house erected like a small conservatory, and in this were suspended the bead wreaths. Quite a number were at least eight feet high and long and three feet wide. The round rope yellow immortelle wreath was also very popular, and six to eight of these of different degrees of freshness were seen on a bar under a glass awning made of two long panes of glass fitted to an iron frame so as to throw off the water.

Some lots in which there had been recent burials contained many wreaths of natural flowers as well as the bead variety. The natural flower designs appeared to be all made on straw forms, long straw being bound about with string and bent to suit. Several large piles of these straw forms were met with on the wagon ways and were being handled by men and piled up either to be burned or carted away. Some yellow immortelle wreaths were noticed made of the single flowers wired and then made into sprays; the effect was good. Very few porcelain flower pieces were seen, the bead work having almost a monopoly. There was a great deal of lettering, mostly done with tin enameled letters. The one pleasant recollection was that "ladders of life," setting suns, the sad hour clocks, etc., etc., were conspicuous by their absence.

K.

New York.

The cut flower market is beginning to feel the combined effect of Lent and the long bright spring days. Everything is abundant and the buyer practically sets the price. Only the special fancy grades are touched by the large retailers now and these in very limited quantities, "drips and drabs" as James Hart would say. The great bulk of average quality stock goes to the Greek, and nobody disputes his right to it all. The rubbish, and there is plenty of it, finds with difficulty a purchaser who will give enough for it to pay the express charges. There are plenty of profitless rose and carnation houses in this neighborhood that might with benefit to their owners be turned into lettuce



CUT FLOWER STORE OPPOSITE PERE LACHAISE CEMETERY, PARIS.
THROUGH AMERICAN EYES.

and radish factories. American Beauties are getting plenty again, but outside figures are out of the question for the best of them now that the Brunner has arrived on the scene. The Jacq has served the Meteor in the same manner, and Meteor must take a back seat for the time being. Of carnations there are plenty and prices on quantities are very low. Violets are tremendously overstocked. A recent sale of 10,000 violets for \$18 gives some idea of the prevailing conditions. In bulbous stock there is but little doing. Tulips are improving in quality, but lily of the valley, although very abundant is inferior in quality as a rule, and all bulbous stock is very difficult to dispose of. Harrisii lilies do not bring over two dollars per hundred in quantity.

The club meeting on Monday evening was but slimly attended. There was no special subject for discussion, and no aspirant for honors in floral design making was visible, so the business of the evening was promiscuous and not particularly weighty. Letters were read from several clubs acknowledging invitations to the carnation dinner, from Mrs. Adolph Ladenburg thanking the club for its sympathy on the occasion of Mr. Ladenburg's death, and resolutions on the death of Max Mosenthin were passed. The dinner committee reported, propositions to reduce the initiation fee to \$3 and membership dues to \$4 were presented and then came adjournment.

A stock company has been formed of which G. W. Arnett is president for the manufacture in this country of Albert's Horticultural Manures for which R. L. Merwin & Co. have been selling agents hitherto. The corporation will be known as The Concentrated Fertilizer Company.

A. & F. Rolker report increasing trade at their down-town cut flower establishment. They will begin regular auction sales on March 18 and continue them every Tuesday and Friday throughout the season.

At the funeral of Max Mosenthin there were present about forty members of the North Hudson Florists' Club. A magnificent broken column of lilies and violets made by R. Wittmann, was the club's tribute.

W. F. Sheridan will move on May 1 from West 30th street to 39 West 28th street, where he will have a better loca-

tion and enlarged facilities for the transaction of his wholesale cut flower business.

The first auction sale of the season came off on Tuesday, March 10 at Wm. Elliott & Son's Dey street rooms. The stock was dormant Holland and Belgium stock and it moved rapidly and satisfactorily under the veteran's hammer; every Tuesday and Friday hereafter until July.

Siebrecht & Wadley are highly elated over the fact that a western firm, Gause & Co., of Richmond, Ind., have selected the new rose Belle Siebrecht as the ornamental feature of their catalogue cover. The picture shows up well.

Wm. Plumb and wife have just returned from a ten days' visit to Chicago, where their daughter resides.

On the morning of March 5 the green-houses of John Hamilton, superintendent of Holy Cross Cemetery, Flatbush, were damaged by fire to the extent of \$800.

The Board of Managers of the N. Y. Botanical Garden has recommended the purchase of the mycological herbarium of J. B. Ellis, containing 75,000 specimens and supposed to be the most complete in the world.

John Van Til, son of Jacob Van Til, died at Corona on Sunday morning, March 1, of heart disease. A daughter is very sick with pneumonia.

A. Ingram, representing Hugh Low & Sons, London, arrived per steamer Lucania on March 7.

John A. Scollay of Brooklyn is very sick.

Boston.

On Wednesday, March 4, Judge C. W. Hoitt had a house-warming. Not being possessed of the gift of second sight or prophecy in addition to his many other noble qualities, the judge didn't know when he set the date and issued the invitations which were so joyfully accepted by a score of the craft, that March 4 would come right in the track of one of the worst storms seen for many years, the bridges down and direct communication between Nashua and the rest of the civilized world cut off. Notwithstanding all this, however, thirteen of the faithful started out bravely from Boston determined to get to Nashua or die in the attempt. And they got there finally, and

the keen New Hampshire winds and drifting snow were quickly forgotten in the warmth of the New Hampshire welcome which pervaded every corner of the stately mansion where the judge and his lady, with her father and mother, dispensed New Hampshire cheer without stint. Evening came all too quickly and it was with great reluctance that the fire-side, the music and hospitality were forsaken and the forty mile trip for home begun. It was five and a half weary hours before Boston was reached and past two o'clock in the morning before some of the half frozen excursionists set foot on their own door-steps. Some maintain that the hoodoo lay in that number thirteen. Perhaps it did, but there is not one of the thirteen who would not be willing to take the same chances over again if assured of the same good time at the other end.

The market is very dull. Plenty of stock and few customers excepting the street lakirs who manage to make a good hole in the surplus every pleasant day. There are plenty of roses at very low figures, the only exception in the matter of price being Brunner, which is now coming in in fine form and sells well. Bulbous stock is in no demand, and lilies, callas, etc., are disposed of with difficulty. In carnations there is some activity; good Scotts and white varieties moving fairly well. The funeral of the late Governor Greenhalge used up an enormous quantity of white flowers and it is probable that more money was spent for funeral decorations on that occasion than for any similar purpose for many years. The retailers are making preparations for Easter and several of them have already secured extra stores in anticipation of the usual big demand.

At the monthly meeting of the Mass. Horticultural Society on March 7 six new members were admitted, the number including Wm. F. Dreer of Philadelphia. Mrs. E. M. Gill and James Comley made attractive displays of cut flowers and a silver medal was given to W. P. Winsor for a plant of *Cattleya Trianae alba*.

The Newton Horticultural Society has voted to employ men to go through the city and destroy all the poison ivy and dogwood, also to pay one dollar per thousand for the collection of belts of the eggs of the tent caterpillar.

Visiting Boston: W. Dykes, J. E. Killen representing C. H. Joosten and W. Rolker, all of New York.

Philadelphia.

There is not much to say of the business; things are running along fairly well for Lent, and all are looking forward to a good Easter trade. Prices are about the same as last week for most stock except the tea roses, of which the best grade can now be purchased for from 6 to 8 and the cheaper stock 4 to 6. Valley has been sold very low on the streets, and there is much kicking among the stores, who can do considerably better by patronizing the fakir than getting their supply through the regular channels, and nobody sells to the fakir?

The next meeting of the Horticultural Society should be very interesting. The lecturer will be Prof. Bailey of Cornell, his subject "Von Mons' theory of the production of varieties." This should be of great interest to those of the trade who are engaged in raising new varieties of carnations, roses and other flowers. The committee having in charge the fitting up of the new club rooms went over the ground with the architect last week, and

find that any alterations desired can be done at very small expense, and when these are made the work of fitting up will be pushed rapidly to completion.

Chas. D. Ball is now president of the Gun Club, W. J. Colflesh vice-president, G. Anderson captain; and the offices of secretary and treasurer will be managed by A. B. Cartledge as before. The various members of the team have been given handicaps, and a beautiful medal to be competed for monthly or semi-monthly has been presented by Mr. Donaldson. As handicapped it seems as if all hands have a good chance for the prize, which is to belong to the member winning it the greatest number of times during the year.

The matter of adjusting the business of Walter Cliffe, who made a proposition to pay his creditors 50 cents on the dollar is still in abeyance. Mr. David Cliffe was to be asked to pay a portion of his son's debts, as the creditors thought that what appeared to them to be an excessive rent had taken all his son's profits.

Mr. Wm. K. Harris was treated to a surprise by a number of his friends in the trade last Tuesday evening. It was the occasion of another year having rolled round, and another anniversary of his birthday was passed in the midst of friends, who wished him many happy returns of the day. Mr. Harris has a very musical family, in fact among his many accomplishments his manipulation of the fiddle and the bow is not the least, and the company were treated to some excellent music. After refreshments and songs contributed by the visitors the party set out for home at the wee small hours, after having spent a enjoyable evening. K.

Indianapolis.

The March meeting of our local Florists' Club was held Wednesday, March 4, in the regular meeting room. It was decided at the February meeting to appoint the following committees to arrange for a carnation display and entertainment; they were instructed to invite visitors from other cities and request carnation displays of seedlings and novelties. The arrangement committee, H. Rieman, Jno. Berterman and Fred Huckriede, and the committee on entertainment, E. A. Parker, Prof. Walker and F. B. Alley, succeeded in making the meeting one of great interest and a complete success beyond expectation. In the absence of Pres. Hartje, who is confined by sickness, Vice-Pres. H. Rieman presided. He introduced Mr. E. A. Parker, who made the speech of welcome to the local members, visitors and visiting florists from other places. Mr. Gillette of Cincinnati made the response in a rattling good speech at the close, inviting every one to attend the rose display to be given by the Cincinnati Florists' Club March 14, and also to the National Carnation Meeting to be held in Cincinnati in 1897, a little early for an invitation he thought, but he wanted our minds to be ready when the official invitation came along.

Mr. Hill of Richmond responded on the subject of raising the "Ideal flower," his remarks were entertaining and to the point. In the discussion following Mr. Fred Dorner, Mr. Aughinbaugh, Mr. Wm. Murphy of Cincinnati, Mr. McBurney of Atlanta and others took part.

Mr. Wright, a young chemist in the employ of Eli Lilly & Co., exhibited specimens of naturally preserved flowers, leaves, etc. (should think of great value to botanists), he promises to give me full description of the whole proceeding, as soon as he has fully developed his experi-

ments. After a report from the premium committee the meeting closed, to be followed by a substantial lunch, coffee and other welcome refreshments, not to forget the cigars. Piano and singing made a charming finish. It was past midnight when this happy gathering parted. A party of ten or more made arrangements to visit Fred Dorner & Son's place at Lafayette, Ind., Thursday morning.

The committee on awards consisted of Robert McKeaud, Indianapolis; John Freise, Newport, Ky., and Henry McBurney, Atlanta, Ga. Their awards were as follows:

Henry Rieman, Indianapolis, honorable mention for carnation Sunbeam and certificate for large specimen plant of Davallia stricta. Bertermann Bros., certificates for valley, assorted carnations, carnation Sunbeam, cineraria and cyclamen plants and honorable mention for decorative plants. E. G. Hill & Co., Richmond, Ind., certificate for carnations Gen. Lew Wallace and Katie Schaffer; honorable mention for Mrs. Thompson. Wm. Murphy, Cincinnati, received certificate for carnation Bridesmaid. Henry Michell, Marion, Ind., exhibited E. V. Debs, No. 196, and several other seedlings, which were recommended for further trial. Myers & Samtmann, Wyndmoor, Philadelphia, received certificate for blooms of Della Fox and honorable mention for plant of same, which was well grown. R. Witterstaetter, Sedamsville, O., received certificate for carnation Miss Emma Woher. F. Dorner & Son received certificates for Mrs. C. H. Duhme, Uncle John, Dazzle, Albertini and Meteor. Young & Sonnenschmidt, Indianapolis, received certificates for Albertini, Daybreak and Uncle John.

Among the roses, the Hasselman Greenhouse Co., Indianapolis, received certificates for quality and fine growth with Testout, Bride and Bridesmaid. Hill & Co. received certificate for La France and also for Belle Siebrecht, which showed a good color, though stems somewhat weak in the neck. Alfred Pahud, Indianapolis, received certificates for fine specimen calla lilies and cinerarias.

Among the carnation blooms shown were some of extreme size, fine color and delightful fragrance. Miss Emma Woher, a delicate pink, shade darker than Daybreak, is really an acquisition to existing colors. Sunbeam, Jubilee, Dazzle and Gen. Lew Wallace are scarlets that are beautiful for color, size, stem and fragrance. Mrs. Thompson was another fine pink one shown. All the older varieties shown were remarkable for their condition, especially Mrs. C. H. Duhme, Bridesmaid, Albertini, Meteor, Uncle John, Daybreak, Lizzie McGowan. Stuart & Haughey, Anderson, Ind., showed some fine cut roses and flower of a beautiful red amaryllis. Among the exhibit of Bertermann Bros. were some finely grown trumpet major narcissus and tulips. The whole exhibit was very creditable and was worth being shown in a more public and convenient hall. In the writer's opinion these shows given several times during the year, everybody invited free or probably a nominal admission charged, should settle the discussion, "How can flower shows be made more successful."

Following were our visiting florists: H. McBurney, Atlanta, Ga.; E. G. Gillett, Wm. Murphy, Jul. Schuman, Sam Kuhn, Tom Windram, Cincinnati; John Friese, Newport, Ky.; Fred Dorner, Lafayette; E. G. Hill, Richmond; J. S. Stuart, Anderson; Fred Winn, Martinsville; Wm. Hartje, Cambridge City, Ind.

Mr. John Hartje, president of the Florists' Club, is down with typhoid fever.

He is reported to be getting along in good shape.

A party of ten or more accompanied friend Dorner to Lafayette to see carnations grown as they should be grown.

At a recent visit to Detroit the winter found the principal florists in good spirits after a good substantial holiday trade. A visit to Breitmeyer & Sons' extensive greenhouse establishment found much of interest. The carnation houses were in perfect condition, Albertini, Scott and Daybreak were conspicuous for their size and growth, so was also their new yellow seedling, Mayor Pingree. It is remarkable for its growth and length of stems, the keeping quality of the flower is without equal. The California violet is a great success with them. Mme. Watteville, Mme. Cusin and Sunset roses are some of their specialties. Their city sales place, store and conservatory the writer consider an ideal floral establishment.

Local flower trade has been, before Lent set in, good, as good as could be expected. Lent is being more closely followed in this city than formerly, consequently business is somewhat slower than usual at the present time. W. B.

Buffalo.

On Wednesday, March 10, the annual election of officers of the Florists' Club took place. There was a good attendance present, all knowing that a good time was to follow. After the general business of the club was transacted the election followed. The following officers for the year were elected: E. I. Mepstead, president; S. A. Anderson, vice-president; Wm. Legg, secretary; Geo. Asmus, financial secretary; W. F. Kasting, treasurer; executive committee—J. T. Cowell, D. B. Long, J. Heiser, W. A. Adams, C. H. Keitsch. Reports from the financial secretary and treasurer were read and accepted. The club here adjourned to the banquet hall, where an elegant spread met their eyes. The chandeliers and table were beautifully decorated with asparagus, tulips, carnations, roses and violets. One familiar face was missed that has in all previous years attended the banquet and acted as toastmaster, President Scott. But who could make a better one than Mr. Keitsch? He has such a neat way of getting around a thing. After we had partaken of everything on the bill of fare toasts were in order. Mr. Keitsch started the ball rolling with an able address, and called on Mr. Mepstead to respond to the toast "Our new president." He responded in great style and mentioned many things that would help the club along. Mr. Legg ably responded to the toast "The general florist." Mr. Cowell and Mr. McMillan responded for "The Buffalo parks," Mr. Long for the S. A. F. Mr. Adams, in one of his sarcastic little speeches, answered for the retailer. Mr. Anderson spoke on "New ideas," which is a good idea; Mr. Asmus on "The decorator," Phil Scott on Saturday half holiday. This was the one that caught them, not the speech, but the half holiday. Billy Kasting spoke for the commission man. Mr. Beatus of Dayton, O., responded for the guests, and last but not least "Jake" Heiser spoke for the ladies. The subject seemed to suit "Jake," as he gave a long and interesting talk. The club will hear more of him now, as he has been elected on the executive committee. Letters of regret were read from Mr. Buddenborg, who could not attend, and Mr. Scott, who is ill at home. A drink to his health and a speedy recovery was tendered. As it was getting into the small hours of the morning the party



VIEW IN A PARIS PARK.
THROUGH AMERICAN EYES.

now broke up, all having a pleasant time.

There was quite a gathering of out of town members and guests, including Mr. H. Wise, Mr. F. B. Lewis, Mr. Thomas Mansfield, Mr. Mosier of Jamestown, Mr. Beatus of Dayton, O., and Mr. Smiley of Lancaster, N. Y. P. S.

Pittsburg.

Trade has been very quiet this week, nothing of special importance going on, but notwithstanding the large number of fashionables away on trips to Florida, Europe, California and elsewhere, there was a steady demand of small orders; with these, and the usual amount of funeral work the florists have had a fairly good week. Stock plenty and in the main good quality.

Mr. Weber of H. Weber & Sons, Oakland, Ind., and J. Doppelt of Erfurt, Germany, were recent visitors.

Mr. Gustave Ludwig exhibited sweet peas *Blanche Ferry*, the first of the season, grown by Mr. John Murchie, Sharon, Pa., also good pansies. Messrs. Beckert Bros. sent in (also the first ones) corn flowers, ranunculus and some very fine specimens of *hougainvillea*, with their usual fine assortment of roses, carnations, etc.

Mr. E. H. Becker, 6105 Penn avenue, East End, is putting up a small greenhouse, 60x15 feet, in the rear of his store-room, heated by steam.

The contract has been let for the new entrance-way to Highland Park. The plans show that it will be a most imposing decoration. The plan is to have two large upright monumental pieces on either side of the driveway. These are composed of groups of four Doric columns, on the top of which will be groups of figures signifying "Welcome." At the side will be single figures of women holding electric lamps and a semi-circular balustrade with eagles on either end. From the ground to the top of the monument the height will be 60 feet. The pillars will be granite and the figures bronze, heroic size and standing on an eminence, the effect will be grand. The entrance-way is 50 feet wide. The designer is the New York sculptor, G. Moretti, who is making the models so as to have all completed early the coming summer. Supt. Burke, in

charge of Highland Park, while he does not divulge any of his plans for decorative work for next season can, judging by his work last year and which was so much admired by our visiting florists, be relied on to have the grounds there beautified worthy of the magnificent new entrance.

W. Lowe is out once more after a siege of "Job's comforters," he regretted missing the club social very much and he was missed by them too, as he is one of our "live" members.

Waller Breitenstein, who has been sick for about two weeks, is on deck again and can be found at his new store regularly. He was rather unfortunate in being sick just after opening in his new venture.

REGIA.

St. Louis.

The cut-flower trade in St. Louis has felt the effects of Lent but little. The past week in the retail stores everybody had something to do, most of the work being for funerals. At the wholesale establishments the stock did not accumulate as it did a week ago. Prices are a little low, but about up to the mark of previous seasons. The opening of the opera season at the Music Hall this week will no doubt help the trade somewhat. The market has never been better supplied here as to quality and variety. Roses in all popular sorts are not abundant and bring from \$4 to \$8, the latter figure is for good long stem stock such as Brides, Bridesmaid, Meteors and Kaiserin. Carnations are down a little but good common stock still brings \$1.50 and anything better \$2. Daffs were plentiful a week ago, but a little scarce now, but there is not much demand for them. They bring \$2 and the single 50 cents. Violets are away down in price, southern 10 cents a hundred, home grown 20 cents and double 50 cents. Harrisii are selling slow and the price is down to \$4 and \$6, callas \$5 and \$8, valley \$2 and \$3, Dutch hyacinths \$4, Romans \$2 and \$3, mignonette is offered freely and meets with good demand at least that grown by A. Meyer, which is about the finest in the market. Smilax is also selling well and bring \$15 and for the best \$18.

Visitors in town were Chas. Le Massey from Dayton, O.; Joe Rolker of A. Rolker & Sons, New York.

J. M. Jordan returned Monday after being about twenty days on a visit to New Mexico.

The Houseman Floral Co. has bought the greenhouses and land of the Hausburger Floral Co. at Sutter, St. Louis Co.

The preliminary list of the premiums to be offered at the next chrysanthemum show is out and every florist will have them by the end of this week. The committee has secured so far \$545 in special prizes and \$500 Shaw premiums, making a total of \$1045 pledged for prizes for the next show. The names of the firms who offer special prizes are as follows: Jordan Floral Co., \$50; F. C. Weber, \$50; Reissen Floral Co., \$50; Ellison & Tesson, \$50; E. H. Michel, \$50; Wm. Pappe, \$25; C. A. Kuehn, \$25; Cannon Floral Co., \$25; Chas. G. Fleckenstein, \$25; Sanders & Beneke, \$25; C. W. Wors, \$25; Wm. Schray, \$25; Frank J. Fillmore, \$25; C. Young & Sons, \$20; North Floral Co., \$20; Avers Floral Co., \$15; Dr. Halstead, \$15; George Waldbart, \$15, and Frank Bucksht, \$10; Henry Shaw Estate, \$500. Total, \$1045. The committee will have another meeting next week.

At the Bowling Club Monday night the members who showed up had a very pleasant time and some very large scores were made. Johnnie Kunz came out with his rabbit's foot, the one that Papa Jordan brought him from Mexico to win the medal, but he came fourth in the race and had to pay the car fare home. The three best games rolled were by Beneke, 632; second, Dr. Helwig, 598; third, F. C. Weber, 558. The highest single score was made by Beneke, 242; Helwig second, 232, and Kuehn third, 216. Next Monday night the club will select a team of six to roll a match game with the Mag-nolias of South St. Louis. J. J. B.

Chicago.

This week flowers have shown quite a shortage, keeping prices stiff at outside figures in most lines. In roses Beauties seem to run largely to short stems, and long stemmed flowers are comparatively scarce. The flowers are very good in quality, deficiency in stem being the only drawback. All roses sell well, running from \$4 to \$7, and the quantity coming in is not as large as we expect at this season, probably due to dull weather. Reinberg Bros. are cutting superb Testout, large richly colored flowers on stems that would do well for Beauties; they sell at \$8. Carnations share the scarcity of roses; white ones especially have been scarce. They run from \$1.25 to \$1.50, fancies \$2 to \$2.50; these include Stielow's Buttercups and Kelers, which are excellent. Mr. Mundt is also cutting fine carnations. Violets run from 40 cents for poorer grades to 75 for the best; a great many of these have been shipped out of town, keeping the local market well cleaned up. Shipping orders have been excellent during the week, some very large lots being sent out, which no doubt accounts for the scarcity of fakers along State street. Bulb stock shows some signs of slackening in quantity. Harrisii sells very slowly, and callas are a drug except for cheap out of town orders.

Of the attachment suits brought by a number of growers against Mr. T. J. Corbrey six were dismissed and two were tried and non-suited last Wednesday. The result has been looked for with much interest by the commission men. The suits were brought to bring about a division among the growers of money alleged to have been appropriated from sales of their stock by E. F. Winterson

when in Mr. Corbrey's employ. When Winterson was arrested by the detective agency he was induced to turn over some \$1,500 in his possession which was supposed to be money that really belonged to the growers, no record of sales having been made. But Mr. Winterson afterward claimed that he had been forced to turn over money that actually belonged to him. Mr. Corbrey freely acknowledged that this money did not belong to him, and announced his intention to distribute the amount as equitably as possible among those who were consigning to him at the time during which the amount was misappropriated, but under the advice of his attorney declined to make such distribution until the original case against Winterson had been settled. In the meantime Mr. Corbrey was preparing to dispose of his remaining interest in the business, and the growers got the impression that he was to sell out and remove to California, where he has spent his winters the last few years. They therefore brought the suits, which were for the difference between the value of the stock consigned and the amount of returns on sales. They did not expect to receive such amount but believed that Mr. Corbrey would be forced to show his books in defense and that the \$1,500 in dispute would be brought into the case in that way.

In dismissing the cases the court held that the complainants could not establish a claim for a specified sum, and in regard to a demand from a shipper for an accounting of all stock shipped during one or more years the court held the view sustained by a decision of a similar case in New York that a shipper accepting his statement of account and receiving the money therefor waives all other claims and the settlement thus made is final. The possession by Mr. Corbrey of the \$1,500 under the circumstances described did not affect the question as brought before the court.

Mr. Corbrey says he hopes to soon be able to adjust the matter satisfactorily to all parties interested. But in the meantime he proposes to bring damage suits against each of the parties who brought the attachment suits against him, and the end is not yet.

Bassett & Washburn are cutting some fine valley. Trays of blooming pips recently displayed at their city place showed a flower from every pip without a single miss and quality first class. Though disappointed with their Morgan and Seebrecht roses earlier in the season they say the plants are now doing finely and are very satisfactory, Morgan especially proving a good money-maker.

Corbrey & Co. are about to add a new ice box, chiefly for use in storing carnations.

James King, formerly in the seed business in this city, is starting in business at Elmhurst, Ill., where he will grow nursery stock and perennials.

At the meeting of the Florist Club last Thursday evening three new members were elected. Mr. Jas. Reeve, foreman for Mr. A. McAdams, showed some very fine primula flowers.

It was decided to have a "violet meeting" March 26. There will be an exhibition of violets, including new varieties and some pointed discussions on methods of culture and value of the various sorts in the market. It is believed that the violet has not received the attention to which it is entitled and that the proposed meeting will excite wide interest.

William L. Bray, M. A., has been appointed by the Lake Forest University

trustees adjunct professor of botany to serve until the close of the present year. He will fill the position made vacant by the departure of President Coulter.

Recent visitors: Wm. Clark, Colorado Springs, Col.; A. V. Van Zanten, representing Van Zanten & Co., Hillegom, Holland.

LAST CALL for advs. for our Special Spring Number. The forms will be closed after the morning's mail on the 19th inst.

CHICOPEE, MASS.—Ira Hersey, formerly in the florist business at Amesbury, has been engaged as foreman by Mrs. Dexter Snow.

TAUNTON, MASS.—F. Arthur Walker has purchased the stock and business of E. F. Costeller & Co., formerly known as the Briggs Conservatories on Weir street.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—A first-class design maker wants to have a position; good in landscape and decorator. Address L. M. American Florist.

SITUATION WANTED—As foreman, first-class grower of cut flowers and decorative plants; 15 years' experience. E. S. V. care American Florist.

SITUATION WANTED—In a commercial place by a German, age 27, married, small family, as rose grower; 5 years' experience; good references. Address C. WAGNER, P. O. box 432, Summit, N. J.

SITUATION WANTED—By a single man, age 30, as assistant in commercial place; 15 years' experience, but only a short time in this country; state wages. GUS SVEDLUND, Monongahela, Pa.

SITUATION WANTED—As working foreman or manager by competent and successful grower of cut flowers and plants. For full particulars and references address H. E. L. care Am. Florist.

SITUATION WANTED—By young lady in flower store; five years' experience in retail and wholesale stores; competent to take entire charge of a store; best of references. H. care American Florist.

SITUATION WANTED—As foreman; a practical grower of cut flowers and decorative plants; first-class propagator; single, 24 years' experience; good references. FOREMAN, 1019 Vine St., Philadelphia.

SITUATION WANTED—By a first-class grower of roses, carnations, chrysanthemums, violets, palms, ferns, etc.; good designer and decorator; German, married, small family; Refer s. W. F. care Am. Florist.

SITUATION WANTED—English, by a first-class florist and gardener, 10 to experience, 20 years in this country; total abstinence; first-class references. Address GARDENER, care Batchelder Bros., Cleveland, Ohio.

SITUATION WANTED—As foreman; thoroughly understands the growing of roses, carnations, mums and the forcing of all kinds of florists' stock; first-class references. THOS. MCKENZIE, 622 Ridgeland Ave., Oak Park, Chicago.

SITUATION WANTED—By a practical all-round Scotch gardener and florist, 18 years' experience, capable of taking charge of a first-class private place; first-class reference. Address W. MCNEIRO, care Bassett & Washburn, Hinsdale, Ill.

SITUATION WANTED—As working foreman by young man, eleven years' experience in wholesale and retail cut flower trade; good designer and propagator; first-class references; west of Chicago preferred. Address, stating wages, B. care Am. Florist.

SITUATION WANTED—As foreman in a commercial place to grow roses, carnations, chrysanthemums, bulbous stock, bedding stuff, etc., with an up-to-date business man and a Christian; married; best references furnished. Address CHAS. MOSS, box 633, Knoxville, Tenn.

SITUATION WANTED—As foreman in commercial florist's establishment; long experience and successful grower of all florists' stock; well known as one of the best rose, carnation, violet and chrysanthemum growers in the country; middle age; salary moderate. Address FLORIST, 24 Grand St., Waterbury, Conn.

SITUATION WANTED—By capable man as manager of large commercial place; graduate of Hort. College; 12 years' experience; formerly employed at the Vauhan Rose Conservatory, Natick, Mass.; at present with Bassett & Washburn; at Phillips Conservatory, Schenley Park, Pittsburgh, Pa.; first-class references from above place; also references from previous employers. Address GARDENER, Woodside, Long Island, N. Y.

SITUATION WANTED—As head gardener on private place by a young man, American, married, no children, age 25; ten years' experience in everything pertaining to a private place; the past 2½ years with A. W. Bennett (deceased) at Phillips Conservatory, Schenley Park, Pittsburgh, Pa.; first-class references from above place; also references from previous employers. Address GARDENER, Woodside, Long Island, N. Y.

SITUATION WANTED—As foreman in commercial, or head gardener in private, place; 20 years' experience in all branches of horticulture; 20 years in the commercial line in vicinity of New York and Boston; 44 years of age, married, small family; first-class references as to ability and character; those wishing services of a careful conscientious cultivator will please state terms, extent of plant, etc. R. E. BERRY, Edgely, Bucks Co., Pa.

WANTED—The address of David Nelson, florist, recently from Paducah, Ky. Address B. M. care American Florist.

WANTED—To lease for a term of years greenhouses with some land attached; must be in or near Chicago. Address CLOOSTON, care Am. Florist.

WANTED—To lease an established florist business in a live city doing a good trade, consisting of 3,000 to 4,000 feet of glass. Address A. B. Brantford, Ont.

WANTED—An experienced first assistant for 10,000 feet glass, cut flowers and plants; wages \$20 per month and board. Address with particulars GEO. S. BELDING, Middletown, N. Y.

WANTED—A single, sober, industrious man for general greenhouse work; wages \$25 per month and board; give experience and reference. I. L. PILLSBURY, Galesburg, Ill.

WANTED—Florist to take charge of greenhouses with some experience, single man if possible; wanted at once. G. VOLK, 414-416 Milwaukee St., Milwaukee, Wis.

WANTED—A good smart young man for general work where cut flowers and stock for catalogue trade are grown; a good position for a good faithful hand. J. B. care American Florist.

WANTED—At once, young man used to firing steam boilers, with some experience in greenhouse work; \$20 per month with board. Address with references WM. KIRKHAM, Maywood, Ill.

WANTED—A young man of neat appearance and quiet manners to do chores around the house, milk one cow and fill in his time in greenhouse; \$18 per month and board. Address with references WM. KIRKHAM, Maywood, Ill.

WANTED—Two men of experience, unmarried, to grow roses and carnations; must have references and not afraid of work, also who want to stay at one place for two or three years. To go to California. Address CALIFORNIA, care American Florist.

WANTED—A thoroughly experienced grower of roses, carnations, chrysanthemums, etc., for a critical cut flower trade; must be sober and industrious; about 13,000 feet of glass, modern houses; give experience and references; state wages; steady employment. FLORIST, 12 East Jones St., Dayton, O.

FOR SALE—Fremont greenhouse. Business and location good. J. STARKEY, North Bend, Neb.

TO LEASE—For a term of years to a reliable florist or nurseryman, 18 lots (18x200 feet) in 29th ward, Brooklyn, New York. Address OWNER, 1054 Park Place, Brooklyn, N. Y.

FOR SALE OR RENT—Two even span greenhouses, connected, each 18x50, potting shed and sleeping room; new and well stocked; hot water, no competition. RETAIL FLORIST, care Am. Florist.

FOR RENT—Eleven greenhouses all heated by low pressure steam; this is a good chance for a man to go in business with a small capital; write, information free; location good. Address HENRY MOORE, McLemore Ave., Memphis, Tenn.

FOR SALE—Greenhouse property in a large city west of Chicago; 8,000 feet of glass, 8-room house, two horses, two wagons, \$3,000 worth of stock; ground rent \$25 per month; price \$5,000, one-half cash. Address BUSINESS, care Vaughan's Seed Store, Chicago.

FOR SALE—A florist business—5 houses, 5,000 square feet of glass, the stock ready for spring trade, hot water heating, 2 sheds, dwelling, etc.; all in good condition, rare chance for the right man; to be sold on account of ill-health. For particulars: E. TIEDEMANN, O'Fallon, Ill.

FOR SALE—22 greenhouses and 5 acres land, about 1 acre under glass, with or without land and in good condition, houses filled with stock; will be sold at a bargain if taken at once, as I intend to go out of business. For information address P. J. DEUSTER, 348 Winnebago St., Milwaukee, Wis.

FOR SALE.
BROAD STREET FLORAL EMPORIUM.
Broad and South Sts., Philadelphia, including stock of Plants, Greenhouses, Fixtures and Lease. Property 60 feet front on Broad St., 60 feet deep, large show house in front, three small houses in rear. Present owner is retiring from business. Apply
A. W. BOERNER, above address.

THE SACRIFICE OF THE SEASON.
The finest greenhouse plant for sale, within an hour of New York. Consists of several large houses, dwelling house and numerous outbuildings; everything in good order. Abundance of water, fully stocked and amply supplied with hand tools, also wagons, horse and all necessities. Several acres of ground, allowing of expansion of business or of sub-division into building sites. Above property will be sold for a fraction of its value on easy terms. The species of roses or will be leased to responsible parties. Anyone contemplating engaging in this business will lose the chance of their lives if they fail to communicate with the undersigned.
M. P. B., Room 85, 21 Malden Lane, N. Y. City.

Washington.

Notwithstanding the Leaten season trade is very good. While there are no large decorations, teas, luncheons and musicales fill in the time, and though the decorations are on a small scale, they are usually rich. The florists' show windows are brilliant with bulbous flowers, which while not as much in demand as they once were, serve to make the windows attractive.

Lilies are coming in freely, but prices are low. Violets are plentiful and excellent, and are in demand. The street fakirs are disposing of them at marvellously low figures. I am told that they are peddling them for less than the florists can buy them at wholesale; the same applies to all bulbous stuff.

Carnations are plentiful and fine, and are more in demand than any other flowers; they retail at from 50 to 75 cents a dozen. Roses are excellent with the exception of Beauties, which are scarce and as a rule poor, with short stems, and are retailing from \$3 to \$8 a dozen. Brides and Bridesmaids bring from \$1.50 to \$2, extra good ones \$3; La France \$2, extra fine ones \$3 to \$3.50; Perles and Woottons \$1.50, Meteors \$2, tulips 50 to 75 cents, scarlets and double pinks being mostly in demand; Harrisii \$2.50 to \$3.

Spiraea japonica is beginning to come in. First-class stock of all kinds except carnations have until the past week been scarce. There continues to be a good demand for azaleas in flower, in fact all plants in bloom are sold readily.

Mr. Pfister, at the White House, has a fine display of cinerarias this season; they are exquisite in shades and have remarkably large flowers. He has also some fine double ones. His specimen azaleas are unusually fine. He has a good display of amaryllis, among them some fine seedlings of his own raising. Their orchids are doing excellently this season and have flowered well; there is still a good display of bloom in the main conservatory, among which are some fine *Lælia anceps grandiflora*, the flowers being very large. He has several large specimens of old poinsettia planted out which are now producing a second crop of flowers, some of them having as many as six good sized heads along the stem, from which were cut the main flowers some six or eight weeks ago. REYNOLDS.

Cincinnati.

The general run of cut flowers the past week has been moving slowly; had it not been for funeral work the store men, would have cause to complain.

Several of the Holland bulb growers have made their appearance.

Mr. A. C. Heckman of Covington has removed to a new store on Madison avenue. This is one of the finest store in the three cities and Alb. has moved in the right direction, he has now better facilities to carry on his business; we wish him success. Several of the craft attended the Indianapolis carnation meeting, March 4. The party consisted of Messrs. J. Freis, E. G. Gillett, Wm. Murphy, J. Schuman, Thos. Windram and Sam Kuhn. They all speak highly of the carnations on exhibition and were royally entertained.

Thursday morning Mr. Parker escorted the boys to Mr. A. Wiegand's place; after inspecting his place Mr. Wiegand informed them that Indianapolis has been for several years a temperance town and to be on the safe side, he keeps a little on hand. He brought forth several bottles of California wine and all wished they could stay with him longer.

From here they made a flying trip to Mr. Fred Dorner's and "what a glorious time we had," said one of the members of the party. They report that they never saw carnations grow like those at Lafayette. "Why," said Julius Schuman, "Dorner's carnation houses reminded me of a chrysanthemum house in full bloom." After examining the greenhouses they had an elegant spread and delightful music; a merry good time followed which will be long remembered with pleasure.

H. SCHWARZ.

Rooted Cuttings.

Herr's Cold Storage Pansies—\$12.50 and \$15.00 per 1000; 500 extra per 100

Coleus—Red and yellow, also twenty sorts of the finest fancy-leaved, at \$5.00 per 1000, or 75c per 100.

REPLANTED STOCK, in fine condition for potting:

Ageratum—Cope's Pet, blue, 100c per 100; by mail 75c.

Fuchsias—Best singles, 18c per dozen; by mail, 25c.

Heliotrope—Fine sorts, 18c per dozen; by mail, 25c.

Pansies—Herr's strain, none better, \$8.00 per 1000, or \$1.00 per 100; by mail, \$1.20 per 100

Verbena Seedlings—Our own extra select, fine pleasing colors, \$6.00 per 1000, or 75c per 100.

Stock grown by Daniel K. Herr. Address communications to

ALBERT M. HERR,
LANCASTER, PA.

L. B. 496.

Last Call.

Advs. for our
Spring Number
Must reach us
Early March 19
To be in time.

CLEMATIS

Jackmanni, and all large flowering varieties, \$17 per 100

Rhododendrons. Snowball, H. P. Roses, Azaleas, Tree Roses, Pæonia Chinensis, Tree Pæonia, Double Flowering Cratægus vars., Lilacs, Hydrangea, Magnolia with buds, Etc., Etc.

ASK FOR PRICES.

L. C. BOBBINK, RUTHERFORD, N. J.
Branch of the Horticultural Co., Boskoop, Holland.

ORCHIDS OUR SPECIALTY.

THE FINEST STOCK AND SELECTION IN THE WORLD.

New and Rare Plants for the Stove, Greenhouse and Conservatory.

SANDER, St. Albans, England, & Bruges, Belgium.

A. DIMMOCK, Agent, care Bolker's Auction Rooms, 106 and 108 Liberty Street, New York City
Send for catalogue.

CLEMATIS.

Two years, all large flowering, choice named, leading kinds..... \$2.50 \$20.00
H. P. Roses, 2 years, 4-inch pots..... 1.50 10.00
Pæonies, named in 10 choice sorts..... 1.25 8.00
Daisies, dbl. Eng. Snowcrest, Snowflake..... .50 2.00
Smilax, strong plants, one year..... .50 3.00

F. A. BALLER, BLOOMINGTON, ILL.

20,000 Rooted Rose Cuttings, Per 100 Per 1000

Bridesmaid, Perle, La France, Meteor, Hermosa..... \$1.35 \$12.50
Bride, Mermet, Niphotos..... 1.25 11.00
Carnation Daybreak..... 1.25 10.00
Portia, McGowan, E. Craig..... 1.00 8.00
Trailing Vincas..... 1.00 8.00
By mail add 10c per 100. Cash with order.

J. J. LAMPERT, Xenia, O.

DAILLEDOUTE BROS.
CARNATION AND CHRYSANTHEMUM
SPECIALISTS,
FLATBUSH, BROOKLYN, N. Y.

When writing mention the American Florist.



Centaurea Margaret.

A VERY handsome plant which grows about 18 inches high, and produces large, pure white flowers (our illustration represents one in natural size), of the sweetest fragrance. Being produced on long, stiff stems, the flowers are most admirably adapted for bouquets, vases, etc., especially since they keep in good condition for a week after being cut. It is as easily grown as a Bachelor's Button. Pkt. (200 seeds) 25 cts; ½ oz., \$1.00.

FLORISTS' FLOWER SEEDS.

All the latest novelties and standard varieties described and priced in Vaughan's Book for Florists, sent free to Florists.

VAUGHAN'S SEED STORE,
NEW YORK: CHICAGO:
26 Barclay St. P. O. Box 6BB.

THE WM. H. MOON CO.

MORRISVILLE, Bucks Co., PA.

Offer the following to the Trade:

DAHLIAS—20,000 finest and best.
CANNAS—10,000 mixed and named sorts.
HONEYUCKLES—20,000, Evergreen, Halliana and Golden.
CLEMATIS PANICULATA—10,000, one and two years old.
CALIFORNIA PRIVET—200,000, one and two years old.
FLOWERING SHRUBS—250,000, all sizes and varieties.
DECIDUOUS TREES—500,000, for streets and lawns.
EVERGREENS—500,000, large, medium and small.

Correspondence solicited in reference to anything needed in the way of nursery stock.

DON'T WAIT AND GET LEFT,
BUT SET YOUR ORDERS IN. Per 1000 Per 100
Mime. Saffrol Geranium..... \$12.00 \$1.50
Cuphea platycentra (Cigar Plant)..... 8.00 1.00
Feverfew Little Gem..... 10.00 1.50
Salvia splendens..... 10.00 1.25
Alternanthera p. major and aurea nana..... 6.00 .75
The above are grown in flats, and in fine condition.
A few thousand Vinca Variegata, 2½-inch pots, \$2.50 per 100

ROOTED CUTTINGS.

Golden Queen, the only all around yellow
Coleus, and Crimson Verschaffeltii..... \$ 6.00 \$.75
Coleus in variety..... 5.00 .60
Double Petunias..... 12.00 1.50
Fuchsias, named varieties..... 12.00 1.50
Heliotrope..... 8.00 1.00
Double Golden Marguerite..... 12.00 1.50
Ageratum, blue and white..... 8.00 1.00

Selection of sorts to remain with us.

Cash with the order.

J. E. FELTHOUSEN, Florist, Schenectady, N. Y.
Mention American Florist.

Association Flora,
BOSKOOP, HOLLAND.

CLEMATIS, Large-flowering sorts,
\$15.00 per 100.

Rhododendrons in sorts, Pæonia, Bleeding Heart, Spiraea japonica, Azalea, Magnolia, Lilacs and Shrubs.

H. P. ROSES in sorts.

P. OUWERKERK, 1123 Summit Ave.,

Catalogue on Application. JERSEY CITY, N. J.

Fay's Currants, large stock, Extra strong 1 and 2 year. Write for prices stating quantity wanted.

F. H. BURDETT, CLIFTON, N. Y.

Milwaukee.

Business, on the whole, since the advent of Lent has been quite satisfactory to the florists, but funeral work was the chief sustenance, as the weather since the beginning of March has been constantly on the incoming lion order; but florists can now console themselves by the hope that it will go out like a lamb, which will be an advantage to both growers and buyers for the Easter trade.

A large wedding is looked for the latter part of the month for which some florists are already beginning to bestir themselves, the son and daughter respectively of the founders and owners of two of the largest breweries in the world being the contracting parties.

A large transfer of greenhouse property was consummated during the week by Messrs. Hackett & Hoff, a local real estate firm, by which Archie Middlemass became the owner of the P. J. Deuster property on the Blue Mound road opposite Calvary Cemetery. The tract includes two and a half acres of ground which is covered with greenhouses, twenty-two in number, an office and stable; the price paid was \$20,000. It is understood that Mr. Middlemass will embark in the wholesale flower business. Mr. Middlemass will continue to personally supervise his Forest Home avenue greenhouses, while those on the Blue Mound road will be placed in charge of a competent florist.

The demand for good stock keeps pace with the supply, there being plenty of poor and inferior stock left over. Carnations especially now show the advantage in disbudding. Bulb stock is plentiful and demand exceptionally light even at very low figures.

Philadelphia.

The regular monthly meeting of the Pennsylvania Horticultural society will be held in the hall of the College of Physicians, 13th and Locust streets, Philadelphia on the evening of March 17 at 8 o'clock. Prof. L. H. Bailey, Cornell University, will deliver a lecture on Van Mons' Theory of production of varieties. Premiums to the amount of \$35 as per schedule of 1896, offered by Henry A. Dreer, Inc., will be competed for at this meeting. The meeting is open to all.

DAVID RUST, Sec'y.

FUCHSIAS.

... Choice Mixed.

GOOD ROOTED CUTTINGS,
\$1.00 per 100,

By Mail Prepaid.

S. O. STREBY,

Lock Box 77,
UPPER SANDUSKY, OHIO.
Mention American Florist

Collections,
Reports,
Black List,

National Florists' Board of Trade,

271 Broadway, N. Y. C. S. LODER, Sec'y.
Mention American Florist

Siebrecht & Wadley's
ROSE HILL NURSERIES,
NEW ROCHELLE, N. Y.

The largest and finest Collection of Palms in AMERICA. The beauty of stock is home-grown, making dwarf in fine shape and stand more usage than imported stock. A VISIT to our NURSERIES or a trial order and you will be convinced.

SPECIALTIES: NEW CARNATIONS AND CHRYSANTHEMUMS OF 1895.

Palms for Growing. PALMS FOR SELLING. Palms for Decorating.
Areca lutescens, Cocos Weddelliana, Kentia Belmoreana, Kentia Forsteriana, Latania borbonica, Phoenix
3 varieties, Pritchardia grandis. DRACENAS, Commercial varieties.

The Grandest stock Ferns for *jardinieres* in 5 varieties. No equal to our stock. We have without exception, the finest stock of Palms, Stove and Foliage Plants, Orchids and Ferns in fancy named varieties for private use.

Before ordering LILY VALLEY, LILIUM HARRISII for next season, write us for sizes and prices. To your advantage. WHOLESALE PRICE LIST READY APRIL 1st.

SIEBRECHT & WADLEY, N. Y. OFFICE,
409 FIFTH AVE.

GLADIOLI, CANNAS, LILIES,
CARNATIONS.

Send for Catalogue.

CHAS. H. ALLEN, Floral Park, N. Y.

TOBACCO STEMS. Special prices, Ohio,
Pennsylvania, Michigan. Write for them to
H. A. STOOHOFF, NEW YORK CITY.

300 Acres in Nursery.

1 Acre of Glass.

Specialties for Florists.

Per 100
Gardenias, 8, 12 and 18 inches. \$8.00, \$10.00 & \$12.00
Crevillea, 12, 18, 24 and 36 in. \$6.00, \$8.00, \$10.00 & 15.00
Eugenia Jambos, fruit bearing, 8-24 inches 12.00
Camphor, 12-18 & 24-40 inches. \$8.00 & 25.00
Guava Red Cattle, bearing size, 18-24 inches, 12.00
Magnolia Fuscata, 8, 12 18-24 inches. 10.00, \$11.00, \$15.00, 25.00
Olea Fragrans, 8, 15, 24 inches. \$8, \$12 & 20.00
Oranges & Lemons, grafted on dwarf stock,
blooming size, stocky, 10-12 & 15-18 in. \$25 & 40.00
Otaheite Orange, bushy, 10 & 12-15 in. \$8 & 15.00
Stock of above all pot-grown, ready now to ship, and in best possible condition.
Fruit and Ornamental Trees, Rare Conifers, etc. Send for Trade List and Descriptive Catalogue.

P. J. BERCKMANS.

Fruitland Nurseries, AUGUSTA, GA

Ismene Calantha,

OR WHITE AMARYLLIS.

EXTRA SELECT BULBS.
Very profitable for forcing
or outdoor blooming.

\$2 per dozen; \$15 per 100; \$125 per 1000.

Also SAGOS, with from 6 to 36 leaves
Will exchange for Tuberous Begonias, Gloxinias and double white Primulas.

L. HEINL, Terre Haute, Ind.

Mention American Florist.

75,000 Well-Rooted CARNATIONS.

CHEAP FOR CASH.

ALASKA, METEOR, BRIDESMAID, EL-DORADO, DEAN HOLE, MINNIE COOK, SCOTT, L. MCGOWAN. From sand or flats.
J. A. SHELLEM, 17th & Tasker St., Philadelphia

Swanley White Violets

Rooted Runners for sale, \$8 per 1000.

LEWIS TURNER, Florist, KENOSHA, WIS.

Marie Louise Violets.

For want of room we will sell for the next 30 days, strong, clean, well-rooted runners for 60 cts. per 100; \$1.00 per 1000.

WELLENREITER & SCHWIMAN, Danvers, Ill.

PALM SEEDS

WE GUARANTEE full germinating power & replace seeds non-germinating
Per 1000 Per 5000 Per 10,000

Cocos Weddelliana.	\$12.00	\$55.00	\$100.00
Areca lutescens.	10.00	47.50	90.00
Areca rubra.	10.00	47.50	90.00
Geonoma gracilis.	12.00	55.00	100.00
Geonoma Schottiana.	15.00	65.00	120.00

On hand in excellent condition:

Latania Borbonica,

50c per 100; \$2.75 per 1000; \$12.00 per 5000.

Pandanus Utilis

\$1.50 per 100; \$12.50 per 1000; \$50.00 per 5000.

Chas. Schwake, 404 E. 34th St., New York.

J. B. HEISS, Dayton, Ohio.

OFFERS THE FOLLOWING. per 100 per 1000
SMILAX—2 lb., December rows. \$1.50 \$12.00
ROSES—2½ lb., December propagation,
Am Beauty. 5.00 40.00
Bridesmaid. 3.00 25.00
Bride. 3.00 25.00
Marcel Niel (summer propagation). 4.00 35.00

CARNATIONS—Rooted cuttings, McGowan, Wm. Scott, White Dove, Day-break, Silver Spray, Portia and Jacqueminot. 1.25 10.00

CHRYSANTHEMUMS—Dalliedouze, Harry Buley, C. Krueger and Niveus. 2.50 20.00

Palms—Phoenix tenax (2 leaves), Phoenix recinata (3 leaves), Phoenix Dactylifera (2 leaves), Phoenix canariensis (2 leaves), Areca lutescens (2 leaves), all 1 year old plants in prime condition. 6.00 50.00

DRACENA INDIVISA—Strong plants, one year old. 5.00 45.00

5 NEW MIGNONETTES—Reseda Victoria, Reseda Gigantea pyram., Reseda Gabriele, Reseda Louman grand, pleur, fresh seeds. 10.50 per oz.

Delphinium sulphureum. 2.00
Antirrhinum Koenigii des Nordens. 2.00

If you raise Cut Flowers you cannot get along without these seeds for summer and fall.

Cash must accompany all orders

NEW BISMARCK APPLES.

1 and 2 years old.

CH. KOEHLER, Five Points Nursery,
Oxford Church P. O., Phila., Pa.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.
Subscriptions accepted only from those
in the trade.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
wares pertaining to those lines ONLY. Please to
remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to se-
cure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

THE TRANSACTIONS of the Pennsylvania Horticultural Society, Vol. I., recently issued, forms a valuable contribution to horticultural literature. It includes the papers read from December, 1894, to December, 1895, with a description of the exhibition of 1895, and of the ceremony attendant upon laying the cornerstone of the new building. The papers here published include many subjects, and will, as years go by, possess great historical value. Mr. Lonsdale gives notes about progress in floriculture and Mr. Craig tells about plants for home adornment. Prof. John B. Smith, in his paper on insects and insecticides, discusses the different means of treating distinct types of insects. Mr. Landreth is very interesting both in his historical paper and his paper about vegetables. Papers on plant food and allied topics, street trees, etc., go to make a most interesting volume, to say nothing of Mr. Rust's thoughtful review of the last chrysanthemum show. The volume reflects great credit on the progressive organization it represents.

BEDFORD, N. Y.—The Bedford Flower Club, which was organized last October, is planning to extend its influence and usefulness by holding a rose exhibition in June and a chrysanthemum show in the fall. Jas. Wood is president, T. Elwood Carpenter, secretary, and A. J. Tharp, manager of exhibitions.

MAMARONECK, N. Y.—Louis Karsten, formerly of Larchmont, has moved to this place and entered into partnership with Mr. Johnson, the firm name being Karsten & Johnson. They have built six houses, and intend to erect four more in the spring.

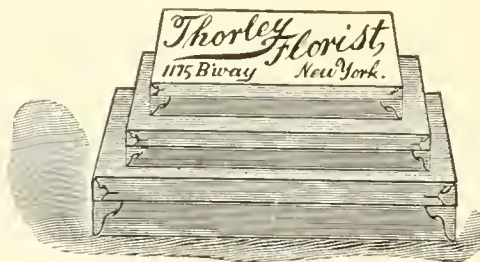
LOWELL, MASS.—Geo. W. Patten broke one of the tendons of his right leg while bowling at the Olympic alleys on March 5. The injury is quite a painful and he will be compelled to use crutches for some time.

PROVIDENCE, R. I.—The greenhouses, barn and outbuildings belonging to Isaac Hazard were destroyed by fire on February 28. The loss was about \$10,000, covered by insurance.

THIS is last call for advs. for our Special Spring Number to be issued next week. Advs. must reach us by the morning's mail on the 19th inst. at the very latest to be in time.

MESSRS. A. V. Van Zanten and H. Van Teylingen, of Van Zanten & Co., Hillegom, Holland, are on a business trip through the U. S.

OUR special spring number will be issued next week.



The boxes as they appear when set up for use.

We make them in a sufficient number of sizes, including for violets, to meet all necessary requirements.

THE NATIONAL FOLDING BOX & PAPER CO.,

NEW YORK SALESROOM:
132 & 134 Franklin Street.

315--325 Congress Ave., NEW HAVEN, CONN.

COMPLETE LINE OF SUPPLIES
WIRE WORK
— WE —
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OF
BULBS
PHONE 1273
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ALWAYS ON HAND
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WHOLESALE
Cut Flowers and Florists' Supplies
WIRE DESIGNS.
1402 PINE STREET,
St. Louis, Mo.

C. A. KUEHN,
(Successor to ELLISON & KUEHN.)
Wholesale Florist,
1122 PINE STREET,
ST. LOUIS, MO.
A complete line of Wire Designs.

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Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

The Boston Flower Market

is prepared to purchase, on order, and ship Trade orders for Cut Flowers at prices ruling in the market on day of sale. TERMS STRICTLY CASH.

Address **WM. J. KENNEDY, Mgr.,**
Flower Market, Park St., BOSTON, MASS.
Long Distance Telephone "Haymarket 638."

DAN'L B. LONG,
FLOWERS AT WHOLESALE.
Strictly Commission Business.
SUPPLIES, ETC.
LISTS FREE. **BUFFALO, N. Y.**

A. & F. RÖLKER,
Down-town Wholesale Florists,
106 & 108 Liberty Street (Basement),
NEW YORK.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

"The National"

Folding Flower Boxes are the best and most convenient ever put upon the market. They are made from board, manufactured especially for these goods, and made so as to resist moisture, thereby keeping the flowers fresh, and the box holding its shape.

Wisconsin Flower Exchange, CUT FLOWERS.

Good supply, choice stock prompt service.

MRS. PIERPONT MORGAN and other varieties of Roses; healthy stock.

JUBILEE and all the other good varieties of Carnations for growers.

WATER LILIES, the best varieties for fancy ponds or lakes.

CANNAS, the latest varieties @ \$2.50, and the standard varieties.

LILY BULBS, Auratum and Speciosum for spring planting.

SWEET PEA SEED, a choice collection of varieties at prices which you can afford.

SHEEP MANURE. We are headquarters for this; in any quantity at low rates.

Wisconsin Flower Exchange,
Wholesale Commission,
Box 87, **MILWAUKEE, WIS.**

WHOLESALE FLORISTS
JOEBERS IN
FLORISTS'
SUPPLIES,
FLORISTS'
VASES.

METS,
BRIDES,
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.

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BOSTON, MASS.
HORTICULTURAL AUCTIONEERS.
Always mention American Florist.

WELCH BROS.,
Wholesale Florists,

NO. 2 BEACON STREET,
Near Tremont St. **BOSTON, MASS.**

Asparagus Plumosus Nanus.
Cut Strings, 8 to 10 feet long,
50 CENTS.

W. H. ELLIOTT, Brighton, Mass.

SAMUEL S. PENNOCK,
Wholesale Florist
1612 & 1614 BARKER STREET,
Bet. Market & Chestnut, **PHILADELPHIA, PA.**

E. H. HUNT, WHOLESALE FLORIST

68 Lake Street, CHICAGO.

WHOLESALE CUT FLOWERS.

SEEDS, BULBS AND ALL
FLORISTS' SUPPLIES.

KENNICOTT BROS. CO. Wholesale Cut Flowers and FLORISTS' SUPPLIES, 88 Wabash Avenue, CHICAGO.

T. J. GORBREY & CO., Wholesale Commission Florists 59 Wabash Ave., CHICAGO.

If you want First-Class Flowers, properly packed and delivered on time, send me your orders and you will get what you want.

We are now prepared to furnish Florists' Wire Designs and a full line of Florists' Supplies.

WRITE US FOR OUR ILLUSTRATED CATALOGUE.

Bassett & Washburn, Successors to J. B. DEAMUD & CO., CROWERS and WHOLESALE DEALERS in CUT FLOWERS, 88 Wabash Avenue, CHICAGO. HEADQUARTERS FOR AMERICAN BEAUTIES.

Reinberg Bros. WHOLESALE CUT FLOWERS, 51 WABASH AVENUE, Telephone Main 4937. CHICAGO. Our Roses best them all, in quality. Headquarters for fine American Beauties.

W. E. LYNCH, WHOLESALE CUT FLOWERS, Wire Designs a Specialty, 59 WABASH AVENUE, CHICAGO.

ROGERS PARK FLORAL CO., Wholesale Growers of CUT FLOWERS, 41 WABASH AVENUE, CHICAGO.

We are prepared to fill your orders with first-class flowers. Give us a trial order.

A. G. Prince & Co. WHOLESALE COMMISSION FLORISTS, 41 Wabash Avenue, Telephone Main 3208. CHICAGO. alignmentsollected, Prompt attention to all orders.

FLOWERS at RETAIL.

We are prepared to fill orders—received by mail or telegram—for Cut Flowers, etc., to be delivered in Cincinnati and suburbs or nearby towns.

12 Customary discount to the trade.

HUNTSMAN & CO.,
615 Race Street, CINCINNATI, O.

Wholesale Markets.

Cut Flowers.

NEW YORK, Mar. 12.	
Roses, Beauty, extra grades.....	10.00@25.00
" " eulls.....	2.00@ 5.00
" Niphotos Perle.....	1.00@ 3.00
" Cousin, Watteville.....	1.00@ 3.00
" Bride, Bridesmaid.....	2.00@ 6.00
" Testouts.....	2.00@ 8.00
" Meteor, Morgan.....	2.00@ 8.00
" Jacqs.....	5.00@12.00
Carnations, ordinary.....	50¢ .75
" " fancy.....	1.00@ 1.50
Violets.....	.25@ .50
Valley.....	1.00@ 2.00
Daffodils.....	1.00@ 1.50
Tulips.....	1.00@ 1.50
Freesia.....	.10@ .15
Longiflorum, Harrisl.....	2.00@ 3.00
Mignonette.....	2.00@ 6.00
Lilac, per bunch.....	50¢ .75
Asparagus.....	75¢ @ 1.00
Adiantum.....	12.00@15.00
Smilax.....	12.00@15.00

BOSTON, Mar. 12.	
Roses, Gontier, Niphotos.....	2.00@ 3.00
" Perle, Hoste.....	2.00@ 4.00
" Bride, Bridesmaid, Mermet.....	3.00@ 8.00
" Meteor.....	5.00@10.00
" Beauty.....	10.00@35.00
" Brunner.....	2.00@50.00
Carnations.....	1.50@ 2.00
" " fancy.....	2.00@ 2.50
Violets.....	2¢@ .50
Valley.....	2.00@ 3.00
Harrisl.....	4.00@ 8.00
Acacia pubescens.....	1.00@ .15
Romans.....	1.00@ 2.00
Freesia.....	1.50
Daffodils double.....	2.00@ 3.00
" " single.....	1.00@ 2.00
Marqueteries.....	1.00
Mignonette.....	2.00@ 4.00
Adiantum.....	1.00
Smilax.....	15.00
Asparagus.....	50.00

PHILADELPHIA, Mar. 11.	
Roses, Beauties.....	8.00@40.00
" Brunner.....	25.00@40.00
" Lains.....	20.00@25.00
" Best selected teas.....	8.00
" " seeds and small stock.....	4.00
" Morgan.....	10.00@12.00
Carnations, general stock.....	1.00@ 1.50
" " selected and choice kinds.....	2.00
Harrisl.....	6.00@ 8.00
Valley.....	2.00@ 4.00
Romans and Paper White.....	2.00@ 3.00
Tulips.....	3.00
Violets.....	.50@ 1.00
Mignonette.....	2.00@ 3.00
Freesia.....	1.00@ 2.00
Smilax.....	15.00@20.00
Asparagus.....	50.00
Maldenhair.....	1.00

CHICAGO, Mar. 13.	
Roses, Beauties.....	25.00@40.00
" " seconds.....	6.00@20.00
" Perle, Morgan, Stebrecht.....	3.00@ 5.00
" Brides, Bridesmaid.....	4.00@ 7.00
" Meteors.....	5.00@ 7.00
" Testouts.....	6.00@ 7.00
Carnations.....	2.50@ 1.00
" " fancy.....	2.00@ 2.50
Harrisl, callas.....	4.00@ 6.00
Valley.....	3.00
Violets.....	.35@ .75
Roman hyacinths.....	2.00@ 3.00
Narcissus.....	2.00@ 3.00
Hyacinths, Dutch.....	4.00@ 8.00
Narcissus Von Slon.....	2.00@ 3.00
Freesia.....	2.00
Smilax.....	12.50@15.00
Asparagus.....	50.00

ST. LOUIS, Mar. 11.	
Roses Beauties long.....	30.00@50.00
" " select stock.....	5.00@ 8.00
" " general stock.....	3.00@ 4.00
Carnations fancy.....	2.00@ 2.50
" " ordinary.....	1.00@ 1.50
Valley.....	2.00@ 3.00
Harrisl.....	6.00@ 8.00
Callas.....	2.00@ 3.00
Daffodils double.....	2.00@ 3.00
" " single.....	.50@ 1.00
Tulips.....	2.00@ 3.00
Violets southern single.....	.10
" " home grown.....	.20
" " double.....	.50@ .75
Freesia.....	1.50@ 2.00
Smilax.....	15.00@18.00

BUFFALO, Mar. 11.	
Roses, Beauties.....	20.00@30.00
" " Meteors.....	6.00@ 8.00
" " Bridesmaid, Mermeta, Bride.....	6.00@ 8.00
" " Cousin, Perle.....	5.00@ 6.00
Carnations, fancy.....	1.50@ 2.00
" " common.....	1.25@ 1.50
" " short.....	.75@ 1.00
Harrisl.....	12.00@15.00
Callas.....	10.00@12.00
Romans.....	3.00
Valley.....	4.00
Violets.....	.50@ .75
Tulips.....	3.00@ 3.50
Daffodils.....	3.00
Smilax.....	15.00@20.00

GEORGE A. SUTHERLAND, Successor to PECK & SUTHERLAND, Successors to WM. J. STEWART, Cut Flowers & Florists' Supplies WHOLESALE. 67 Bromfield St., BOSTON, MASS. New England Agent for the GREAT ANTIPEST.

John I. Raynor, 49 WEST 28th STREET, NEW YORK.

SPECIAL EXTRA STOCK OF
AM. BEAUTY, METEOR,
BRIDESMAID, BRIDE.

DISBUDDEN CARNATIONS.
FANCY GRADE.

Finest MIGNONETTE in the world.

THOS. YOUNG, Jr. Cut Flowers, WHOLESALE, 43 W. 28th Street, NEW YORK.

WALTER F. SHERIDAN, WHOLESALE FLORIST, 32 West 30th Street, NEW YORK.

Roses Shipped to all points. Price list on application

Edward C. Horan, 34 W. 29th Street, NEW YORK, WHOLESALE • FLORIST.

Careful Shipping to all parts of the country.
Price list on application.

Purdy & Blauvelt, WHOLESALE DEALERS IN CUT FLOWERS, 57 W. 30th St., NEW YORK.

JOHN YOUNG, FINE ROSES WHOLESALE, 51 West 28th St., NEW YORK.

FRANK MILLANG, CUT FLOWERS, WHOLESALE, COMMISSION, 408 E. 34th Street, NEW YORK.

THEO. ROEHRs, WHOLESALE FLORIST 111 WEST 30TH STREET, Established 1879. NEW YORK CITY.

JULIUS LANG, (Formerly with THEO. ROEHRs.) Commission Dealer in Cut Flowers, WHOLESALE, 53 West 30th St., NEW YORK CITY.

The Seed Trade.

AMERICAN SEED TRADE ASSOCIATION.

S. E. BRIGGS, Pres.; T. W. WOOD, 1st Vice-Pres.; ALEX. RODGERS, 2nd Vice-Pres.; A. L. DON, 114 Chambers St., New York, Sec'y and Treas. The fourteenth annual meeting will be held at Niagara Falls, N. Y., June 9 to 11, 1896.

VISITED NEW YORK: Wm. Langbridge, representing J. B. Rice & Co., Cambridge, N. Y.; S. D. Woodruff, Orange, Conn., and Mr. Clark, Jr., Milford, Conn.

THE AMERICAN SEED CO., of Buffalo, N. Y., has been incorporated with a capital stock of \$25,000. Directors, R. Woodruff and L. G. Woodruff, of Buffalo, and W. W. Phillips of Ludys Lane, Pa.

THE schedule of liabilities and assets filed by the assigned firm of De Cou & Co., St. Paul, shows assets of \$1,300 and liabilities of \$9,700. O. M. Metcalf is made assignee. **FELIX.**

REPORTS of unsatisfactory mail trade continue general; that much cause for this condition lies in the unseasonable weather, nevertheless there seems to be reason for some doubt if the season's trade can finally equal in amount that of 1895.

OBITUARY.

HENRY PHILLIPS, of the Henry Phillips Seed and Implement Co., Toledo, O., died February 28. Mr. Phillips was a prominent figure in Toledo business circles through a commercial career of nearly forty-five years, and was warmly esteemed by a wide circle of friends and business associates. He was a valued member of the American Seed Trade Association.

Mr. Phillips was born in Brunswick, Germany, in 1828, and when 21 years of age bade adieu to his native land to cross the sea and make for himself a home in this newer country. He manifested a progressive spirit from the start, and in 1852 embarked in the seed and implement business upon his own account in Toledo, and with but a brief intermission continued in the same to the time of his death. During recent years three of his sons have been associated in business with him.

He leaves a widow and nine children.

Catalogues Received.

Plant Seed Co., St. Louis, seeds; I. N. Kramer & Son, Cedar Rapids, Iowa, seeds and plants; American Boiler Co., New York and Chicago, heaters; The Cottage Gardens, Queens, N. Y., carnations; Geo. B. Moulder, Smith's Grove, Ky., aquatics and other plants; John Saul, Washington, D. C., roses; same, new and rare plants; P. J. Berckmans, Augusta, Ga., greenhouse and bedding plants; Kohlmannslehner & Schwenke, Schöneberg, Berlin, Germany, seeds and plants; Davis Heater Co., Racine, Wis., heaters; Irvington Nursery, Irvington, Ind., trees and plants; Peter Lambert, Trier, Germany, new roses; J. S. Bancroft, Cedar Falls, Iowa, plants, seeds and cut flowers.

Agents Wanted

by an important European seed and bulb growing firm, in the chief town of each of the principal states; must be acquainted with the trade. Address

D C, care American Florist

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

The little Floral Wonder,—“CUPID,”—is fully described in BURPEE'S FARM ANNUAL for '96

The Leading American Seed Catalogue. A handsome BOOK of 184 pages.

Written from knowledge gained at our famous FORDHOOK FARM. Contains hundreds of true illustrations and beautiful colored plates painted from nature. It describes RARE NOVELTIES for 1896 not to be had elsewhere, and tells all about THE BEST SEEDS THAT GROW. The price is ten cents (less than actual cost in quarter-million editions), but a copy will be MAILED FREE to every one who intends to purchase BURPEE'S SEEDS.

W. ATLEE BURPEE & CO., Seed Growers, Philadelphia.

VAN ZANTEN BROTHERS, Hillegom, Holland.

Extra quality of HIGH GRADE FORCING BULBS AT LOW PRICES. Special growers of HYACINTHS, TULIPS, NARCISSUS, Crocus, Lilies, Scillas, Gladiolus, IRIS, Anemones, Ranunculus, SPIRÆAS, Lily of the Valley, etc. etc. The largest collection of sundry bulbs and flower roots. Wholesale Catalogue upon application.

Primula Seed

should be sown now to obtain earliest flowering plants in the fall. OUR STRAINS ARE WORTH GROWING. We offer Rolker's Superior Mixture at \$3.50 for 1/4 oz.; \$1.00 for 1-16 oz.; 25c the packet. Separate colors of white or rose at \$1.25 for 1-16 oz.; of deep red or carnation at \$1.50 for 1-16 oz.

Sweet Peas,

Special offer for March orders; finest mixture 25 cts. a lb. Eckford mixture, 35 cts. a lb. Your choice of 30 varieties listed in our Catalogue at from 40 to 80 cts. a lb. for 40 cts. the full pound of any variety. For postage add 8 cts. the lb.

Asters and other Florists' Seeds, See Catalogue mailed free to applicants; also Lists of Florists' Supplies containing a full line of everything for Greenhouse and store.

Crepe Papers for Pot Covers 25 cts. the roll of ten feet long 20 inches wide, the dozen rolls in assorted colors for \$2.50.

Prepare your Easter order timely.

August Rolker & Sons

136-138 W. 24th St., New York.

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Gibson's Progressive Verbena Seed, an advance on all previous productions. Well grown specimen flowers of many of the kinds 1 1/4 inches across and easily span a silver half dollar, and of the most intensely brilliant and varied colors. In the mixture per trade pkt 25c; 1/4 oz. 10c; per oz. \$3. White Plume, separate, per trade pkt. 50c; 1/4 oz. 10c; per oz. \$1. Purple with distinct white eye, per trade pkt. 30c. Trini pkt. 10c, either kind.

Petunia Cal. Giant, finest selection, per 1000 seeds 60c. Single fringed, Dreer's selected stock, per 1000 seeds 10c. Scabiosa Snowball (pure white) and mixed colors, per pkt. 7c; trade pkt 25c. Dwarf French, gold striped Marigold, pkt. 5c; trade pkt. 25c. Verbena, stock plants, 3-4, including latest novelties, labelled, \$1; mixed \$3; from flats, labelled, \$2.50; mixed, \$3. No disease. We grow the largest Verbena known. Variegated Vincas, strong field-grown, 3-inch, 5 to 8 shoots, \$3; nice young plants, flats, \$1; rooted, \$1 per 100, \$3 per 1000. Petunia plants, Cal. Giants 60c per 100 (seed plant).

Good satisfaction guaranteed or money refunded. Address, cash with order please.

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Vegetable and Flower Seeds. All the newest and best varieties—quality unsurpassed. Illustrated Catalogue FREE.
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15,000 CALADIUM ESCULENTUM, 1 to 4 inches in diameter.

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Home-grown, 1895. Saved from best double blooms only.

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**HARRISII,
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PAPER WHITE,
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Write us for cash prices; they will not only astonish but interest you.

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Heavy blooming bulbs, \$2.00 per doz.; \$15.00 per 100. C. FIMBRIATUM, "Milk and Wine Lily," heavy blooming bulbs, \$1.00 per doz.; \$7.00 per 100.

PANCRATIUM CARIBAEUM,

"Spider Lily," extra heavy blooming bulbs, 50c per dozen; \$3.00 per 100.

All florists should try these fragrant lilies. Easy to grow. SPECIAL Prices by the 1000 in all sizes. Send for our large catalogue.

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VICK'S WHITE BRANCHING..... per oz. \$2.00
" PURPLE " " " 1.50
" ROSE " " " 1.50
" EMERALD PINK " " " 1.50
ZIRNGIEBEL'S DOUBLE WHITE..... 1.50

Trade packet of any of the above, 25 cts. or the set of five varieties, one trade pkt. or each, \$1.00. Write for our Catalogue.

VICK & HILL CO., Rochester, N. Y.

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Money will not Grow in your Pocket. The following items will, if planted now.

	Trade pkt.	Oz.
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“ Victoria, separate colors.....	.50	3.50
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This, and first part of next month is the time to sow seed for outdoor blooms of the celebrated strain of **Simple's Asters**; endorsed by the leading florists all over the country, either for indoor or outdoor blooming.

Largest flowers, exquisite color, Pink, White and Lavender, mixed seed (separate colors all sold) always a seller.

NO EQUAL in the market Seed all grown in '95. Stock limited now. Order soon from

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**BULBS FOR FORCING,
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Extra strong plants, from 2½-inch pots,
\$6.10 per hundred.

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1/2 NATURAL SIZE.
GIANT COMET ASTER, SNOW.

VAUGHAN'S FLORISTS' ASTERS.

White Branching Aster.

This branches freely and grows pure white flowers 4 inches in diameter no very long stems. The petals are long and many of them somewhat twisted, giving them the appearance of graceful chrysanthemums. 1 kt. 25c, 1/2 oz. 40c, 1/4 oz. 10c, 1 oz. \$2.10

Giant Comet "Snow."

Pkt 25c 1/4 oz. 75c, oz. \$5.00.

Vaughan's Florist Mixture.

All of the best cut flower Asters, white, pink, bright red, with a few blue and good shades. This mixture is the "rain for florists," containing only good selling desirable shades. This is a good substitute for the higher priced separate colors. Trade packet 2 c, 1/4 oz. 10c, oz. \$3.75.

Asters, White, Mixed.

Contains all of the white flowering varieties suitable for cut blooms, and includes the Giant Comet "Snow" and the White Branching. Pkt 50c 1/4 oz. 10c 1/4 oz. \$1.00, oz. \$3.75.

FLORIST FLOWER SEEDS.

Strictly fresh new crop stock with all the latest novelties and all the standard varieties now shown in our Book for Florists, spring edition, mailed free on request. We have never yet printed an issue of this book that did not contain novelties which should be tried by every florist. Have you used the Guillaud Carnations?

VAUGHAN'S SEED STORE,

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Mammoth Verbenas.

New, large-flowered, very fine quality.

Per Ounce, \$1.50.

CHOICE FLOWER SEEDS

For Florists.

Price List free on application.

HERRMANN'S SEED STORE,

413 E. 34TH STREET,

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WATSON'S ENGLISH MUSHROOM SPAWN

THE "D" BRAND.



Unsurpassed in quality, always fresh, well spawned and reliable, can be thoroughly relied on as producing a fine crop of the best mushrooms. It is the best and most reliable in the country and is sold at every seed store. It is the best and most reliable in the country and is sold at every seed store. It is the best and most reliable in the country and is sold at every seed store.

G. C. WATSON, Wholesale Seedsmen, Phila., Pa.

PANSY SEED.

THE JENNINGS STRAIN OF FINEST AMERICAN CROWN PANSIES,

in pkt. of 2500 seeds \$1.00, very finest mixed, all colors. Large flowering plants all sold.

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Toronto.

Lent has really begun to make itself felt during this week and store trade has been a little dull. The quality of cut flowers coming in is very fine, it is not their fault at any rate that they go slowly. The departmental stores have been advertising cut flowers very cheap: Roses 50 cents a dozen, carnations 15 cents. Can there be any money in that for either grower or store? Dunlop reports that azaleas and rhododendrons sell quickly; his trouble is to keep up with the demand for violets. Daffodils and tulips are becoming scarce.

Mr. Richard Marshall has left Sir Casimir Gzowski's place, and Mr. Robt. Gore, the late second gardener, reigns over the potting shed in his stead. Mr. Gore is an experienced man and will no doubt be heard from at coming flower shows; he has already shown something of what he can do.

There are rumors of large increases in the area of glass owned by the big growers this summer; Dale, Dunlop, Spears & Muston and Miller are all reported to be contemplating building more houses. E.

St. Paul.

Trade during Lent has been exceptionally good. The demand has equalled the supply, and first-class flowers have been scarce at times. Not only has there been a good demand for funeral flowers, but social functions have held forth in direct opposition to the spirit and object of the Lenten season.

Stock about town is looking very fine, and there should be a good supply of everything seasonable for Easter.

Our winter has been mild and free from snow, but we have experienced a great deal of cloudy weather.

L. G. Venzke, who has been in the business here for a number of years, has made an assignment, and has we understand accepted a position as foreman for J. J. Hill in his private conservatories.

Vogt Bros. have opened a new and elegant store on Wabasha street, and have a choice display of blooming plants and palms.

Recent callers were J. L. Rogers of Chaumont, N. Y.; J. Keur of Hillegom, Holland; H. A. Jobus, Sioux City, Ia.

FELIX.

The Oaks Greenhouse Co., Jackson, Mich.

Offer the following:

Primula Jap., nice 2 1/2-inch pot plants.....	\$2.50
Rooted Cuttings Carnations, 3 varieties.....	1.00
Begonia Metaltica, 3%.....	5.00
Rooted cuttings Chrysanthemums, standard varieties.....	1.00 9.00
R. C. Marguerite Daisy, white and yellow.....	1.00 9.00
R. C. Vinca variegata.....	1.00 9.00
R. C. Carnations, Daybreak, McGowan, Portia, etc.....	1.25 10.00
R. C. a quantity of La France Roses.....	1.50 12.00

If to be sent by mail add 10c per 100. Cash with order.

HORSE CHESTNUT TREES.

Having a surplus stock of white-flowering Horse Chestnut trees, nursery grown and twice transplanted, we offer same at the following low rates:

5 to 6 feet, branched.....	Per 10	100	1000
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Fifty at hundred rates. Address all orders to LEE & SKINNER, Geneva, Ohio.

ALYSSUM.....	Per 100	Per 1000
HELIOTROPE.....	\$.80	\$ 7.00
PARIS DAISY.....	1.00	9.00
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GERANIUMS.....	1.50	15.00

CARNATIONS Rooted Cuttings:
Lizzie McGowan, Silver Spray, Louise Singler, Daybreak, Tidal Wave, Scott, \$1.50 per 100; \$10.00 per 1000 C. LENCENFELDER, Berteau and Western Ave., CHICAGO.

ROSES, TREES, BULBS, PLANTS.

200,000 Strong, hardy, nursery grown Roses.
30,000 Pot Roses, Teas, China, Bourbon, etc.
Greenhouse plants of all descriptions.

100,000 Elegant Poplars, 5 to 25 feet, Carolina Aurea, Lombardy.

ONE THOUSAND CAR LOTS OF OTHER ORNAMENTAL TREES, SHRUBS, Etc.

250,000 Peach, choicest sorts.
150,000 Pear, standard and dwarf.
100,000 Plum, best European and Japan.
75,000 Cherry, Morellos, Hearts, etc.
150,000 Apple, Quince, Apricot.

100,000 Nut bearing trees.
2,000,000 Small Fruits, Grapes, Currants, Gooseberries, Raspberries, Blackberries, Dewberries, Strawberries.

We occupy one and a half miles on the bank of Lake Erie. No healthier, hardier trees are grown on the continent. Catalogue and Trade List free. Lower quotations given on large lots. Write us We can do you good

42nd YEAR. 1000 ACRES. 29 GREENHOUSES.

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Garnation Orders

BOOKED NOW.

Good, clean, well-rooted stock. NO RUST.

	Per 100	Per 1000
BRIDESMAID.....	\$5.00	\$50.00
MET. OR.....	5.00	40.00
STORM KING.....	5.10	40.10
UNCLE JOHN.....	3.00	25.00
STUART.....	3.00	25.00
E. A. WOOD.....	3.00	25.00
GOLDFINCH.....	4.00	35.00
WM. SCOTT.....	2.50	20.00
DIAZ ALBERTINI.....	3.00	25.00
DAYBREAK.....	3.00	25.00

CHRYSANthemUMS.

	Each	Doz.	100
Mrs. W. C. Egan, new (ready March 1).....	\$.50	\$ 5.00	\$ 50.00
Tippecanoe, new (ready March 1).....	.50	5.00	35.00
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Major Bonaffon and other choice older standard sorts.....	.75	5.00	

Send for descriptive trade list.

F. DORNER & SON,
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FOR 14 DAYS ONLY. Per 100 Per 1000

3000 Geraniums, mixed, 4-inch, strong.....	\$6.00	\$50.00
1000 Geraniums, mixed, 3-inch, strong.....	4.00	30.00
1000 Geraniums, mixed, 2 1/2-in., strong.....	2.25	20.00
500 Petunias, mixed, 4-in. strong.....	6.00	
500 Petunias, " 2 1/2 in strong.....	3.00	
400 Lantanas, " 4-inch, strong.....	6.00	
100 Heliotrope " 4-inch, strong.....	6.00	
300 " " 2 1/2-in strong.....	3.00	
15,000 Carnations from flats ".....	1.00	9.00
5000 Pansies, florists' strain, ".....	1.00	6.00
5000 Pansies, " " large clump, s.....	2.00	10.00
5000 New Carnation Pansies, in 100 fancy colors and markings. Try a few plants, \$4 per 100. 50 pkts. of this seed, 25 seeds 25c.		

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Grundy Co. 110 Canal St., MORRIS, ILL.

Bulbous Begonias.

LAING'S STRAIN. In separate colors.

Lilium Longiflorum, Tuberoses, Spiraeas, etc. Now on hand.

Ask for prices.

HULSEBOSCH BROS., Englewood, N. J.

PALM Seed.

Orders taken now for Spring and August delivery of the following varieties germinating power 75 to 90 per cent

CROP '95 & 96.	100	1000	5000
Areca lutescens.....	\$1.25	\$10.00	\$45.00
Cocos Weddelliana.....	1.25	10.00	47.50
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Now on hand, fresh stock:			
Latania borbonica.....	.35	2.50	10.00
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Agent: A. DIMMOCK,
106 & 108 Liberty Street, NEW YORK.
SEND FOR SPECIAL OFFER.

SPECIALTIES

IN BEST VARIETIES.

ROSES, from 3-inch pots.
CARNATIONS, for fall delivery.
CHRYSANTHEMUMS.
SMILAX.

Prices low. Send for list.
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When writing mention American Florist.

E. G. HILL & CO.,

Wholesale Florists

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PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.



New Single Violet Luxonne.

This variety is of French origin and was introduced into this country some four years ago by Mr. Francois Supiot, the Violet expert of Philadelphia, otherwise known as the "Violet King." It has, as Mr. Supiot claims, become thoroughly acclimated, and is without doubt, the most profitable single Violet grown. It is of the same size as the California, but appears nearly double its size, as all the petals open out flat, and has the advantage of flowering continuously from early in September until April, and does not come in crops like the California. It is of a beautiful rich, but soft violet purple color, with strong stout stems from 9 to 12 inches long, and very fragrant.

Shown in competition with well grown flowers of the California at the New York Flower Show last fall, it was awarded the *First Prize*.

We can fully endorse Mr. Supiot's description of the above and also his claims that it supersedes all other varieties now on the market. **\$2.00 per dozen; \$15 00 per 100.**

New Red Violet, Admiral Avellan.

Another French variety with distinct reddish purple flowers, entirely distinct from anything yet introduced. **\$2.50 per dozen; \$20.00 per 100.**

We have been appointed **SOLE AGENTS** by Mr. Supiot for the distribution of his stock, and are now booking orders for delivery **EARLY IN MARCH** for well established plants from 2 1-4 inch pots.

HENRY A. DREER, No. 714 Chestnut Street, Philadelphia, Pa.

ROSES, H. P. and Moss, 2 yr. dormant, suitable for 4 and 5-in. pots, per 100 \$6

ROSES, H. P., 2 1/2-in. pots, dormant, 100 \$4

DOUBLE PETUNIAS, Dreer's strain, 8 finest varieties, per 100 \$2.50.

GERANIUMS, Zonal, fine assortment, strong, per 100 \$2; 1000 \$20.

GERANIUMS, Ivy, Count Horace, Florence, Jeanne d'Arc, Galilee, 100 \$2.50.

GERANIUM Rose 2 1/2-in., strong, 100 \$3.

GERANIUM Mrs. Pollock, per 100 \$4.

MOONVINE (I. Noctiphiton) strong, per 100 \$3

BEGONIA Paul Bruant, 2 1/2-in., 100 \$5

BEGONIA Pres. Carnot, 100 \$5.

BEGONIA M. de Lesseps, Argentea Guttata Multiflora, McBethi, etc., 100 \$3.

CHRYSANTHEMUMS, fine assortment our selection, per 100 \$2; 1000 \$20.

LEMON VERBENA, 10 to 15-in., dormant, per 100 \$3.

OTAHEITE ORANGE, 6 to 10 in., stocky, per 100 \$3.

SWORD FERN (N. Exaltata), 3 to 5 fronds, per 100 \$5.

LANTANA, good assortment, 2-in., strong, per 100 \$2.50.

AMPELOPSIS VEITCHII, per 100 \$3.

ASPAGUS TENUISSIMUS, 2-inch, strong, 100 \$3.

WISTARIA SINENSIS, 2-yr., per 100 \$6.

" " 1-yr., per 100 \$3.

SANSEVEIRA ZEYLANICA, strong, per 100 \$4.

THOS. A. MCBETH, Springfield, O.

Surplus Stock Evergreens.

	Per 100
European Silver Fir.....	2 to 3 ft. \$8 00
Balsam Fir.....	3 to 4 ft. 8 00
Black Spruce (Abies nigra) 3 to 4 ft.	10 00
White Pine.....	3 to 4 ft. 8 00
Pitch Pine.....	3 to 4 ft. 8 00
Austrian Pine.....	2 to 3 ft. 15 00
Pinus excelsa.....	1 1/2 to 2 ft. 15 00
Red Cedar.....	4 to 5 ft. 15 00

All nursery grown and several times transplanted. Shipping begins April 1st. Catalogue free. Good stock cheap for cash.

B. M. WATSON,
PLYMOUTH, MASS.

ROEMER'S SUPERB PRIZE PANSIES.

The finest strain of Pansies in the world, including all leading Novelties.

Plants, middle size.....75c per 100; \$5.00 per 1000.
"extra large, will be in bloom in few weeks,
\$1.50 per 100; \$12.00 per 1000. Terms cash or C. O. D.

Plants from cold frames.
PETER BROWN,
721 Marietta Ave., LANCASTER, PA.

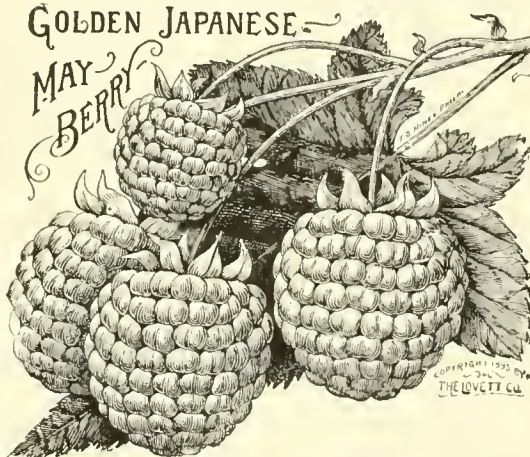
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The Place to Buy Japanese Golden Mayberry.



GOLDEN JAPANESE

MAY BERRY



The earliest fruit known, ripening in advance of the Strawberry. Most novel, forming a shrub-like bush six to eight feet high, producing all along its branches large, white blossoms, which are followed by large, sweet, glossy, golden, semi-transparent berries. The bushes do not die down after bearing like the canes of the Raspberry and Blackberry, but continue to bear fruit for many years like the Currant and Gooseberry. Produced by Luther Burbank of California and is supposed to be a hybrid of a Japanese species of raspberry (*Rubus palmatus*) and the Cuthbert. Our plants were grown direct from the parent stock and are the true variety. They are strong and well established as shown. Doz., \$1.00; 100, \$6.00; 1000, \$50.00

THE LOVETT CO., Little Silver, New Jersey.



BLOOMERS FOR FLORISTS. — THINK OF IT —

CUSHMAN'S GLADIOLUS BULBS,
a sure fit at popular prices.

CUSHMAN GLADIOLUS CO., Euclid, O.

No arbitration necessary as to the
Rare beauty of Burpee's "CUPID."
The Floral Wonder of the Age.

We have RAISED the PRICE OF OUR 1896 NEW CANNAS

originated by our Mr. Antoine Wintzer, from \$6 per set of 12, to \$10 per set, after April 15. This owing to the demand from here and from Europe. Sample orders:—"Book me for 500 White Cannas," W. H. MAULE, Phila. "You may send me 250 White Cannas," J. C. VAUGHAN, Chicago. "Please send us 100 White Canna Alsace," PETER HENDERSON CO. Etc., etc.

CANNA GROWERS PLEASE NOTICE That we have named our latest and best PINK CANNA "THE DUCHESS OF MARLBOROUGH," and our Crimson-black Canna "THE DUKE OF MARLBOROUGH." List of newest Cannas free.
QUEEN CHARLOTTE CANNA, \$8 00 per 100; \$1.25 per 12, mailed. Send for Catalogue of Novelties.

A. BLANC & CO., Philadelphia, Pa.

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Mention the American Florist when writing to advertisers on this page.

Florists' Hail Association.

The outlook for the Florists' Hail Association is bright this spring notwithstanding the financial depression that generally prevails. The amount of inquiry is fully up to preceding years and new members are coming in. Henry A. Dreer, of Philadelphia, who has been a member since 1889, recently insured his new range of houses comprising 50,000 feet of glass, making a total insurance upon 135,000 feet of glass.

The value of the glass now insured in the Florists' Hail Association amounts to nearly half a million of dollars and the association has members in every state and territory east of the Rocky Mountains except Vermont, South Carolina, Florida and Louisiana.

Lowell, Mass.

John Oliver, the Pawtucket street florist, has been elected superintendent of the commons and parks; the right man in the right place.

C. L. Marshall's greenhouses and stock were destroyed by fire about two weeks ago; complete loss, no insurance.

Mr. Marcelles A. Patten has returned from a pleasant trip to New York and Philadelphia. While in New York he attended the meeting of the carnation society. Mr. Patten reports trade all along the line as being away ahead of last season's. His roses and carnations look fine. S.

Nashua, N. H.

Mr. Geo. E. Buxton contemplates removing his greenhouse plant to Concord street. He has bought six acres of valuable ground and as soon as the weather permits will put up five houses of the following size: 21x125, 18x125, 16x125, 17x125, 32x20. These will run east and west with the long (three quarter) span to the south. The houses will be heated by steam and will be built in the most approved way, adopted for roses and carnations. Both Mr. Buxton and Mr. Gaedeke report trade as brisk and encouraging. S.

CARNATIONS

	Per 100	Per 1000
Ophelia	\$5.00	\$50.00
Sweetbrier	2.00	15.00
Scott	2.00	15.00
Daybreak	2.00	15.00
Cartledge	2.00	15.00
Portia	1.50	12.50
McGowan	1.50	12.50
Lamborn	1.50	12.50
Puritan	1.50	12.50

VIOLETS. Lady Campbell, splendid, inexhaustible, \$1 per 100; \$8 per 1000.

MUMS, At \$1.50 per 100. The following: Ivory, Yellow Queen, Mutual Friend, Marie Louise, Mrs. E. George Hs, Mrs. Craig Lippincott, Mrs. F. G. Hill, and E. Dailledouze.

We can furnish other standard varieties of carnations if desired, and will fill orders now. Cash with order. Yours truly,

C. S. SWAYNE, Kennett Square, Pa.

CARNATIONS!

The two leading varieties

Alaska and Minnie Cook.

Buy from the originator and procure genuine stock. CUTTINGS NOW READY.

— ALSO —

ROSE QUEEN, DAYBREAK, WM. SCOTT, VAN LEEUWEN, TIDAL WAVE, Etc.

Write for price list.

MCCORNAC & CO., Paterson, N. J.
Successors to H. E. CHITTY.

100,000 VERBENAS.

THE CHOICEST VARIETIES
IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, \$1.00 per 100; \$8.00 per 1000.

NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR. WE ARE THE LARGEST GROWERS OF VERBENAS IN THE COUNTRY. OUR PLANTS CANNOT BE SURPASSED.

New Carnation "Crimson Sport."

Large flower finest velvety crimson best keeper. Plants hardy, productive free from disease. A good market variety. Send for list of rooted Carnation cuttings.

ROOTED CUTTINGS, \$1.50 per dozen; \$10.00 per 100; \$60.00 per 1000.

J. L. DILLON, Bloomsburg, Pa.

HERR'S CARNATIONS.

ROOTED CUTTINGS that will give good results, because they are taken from healthy stock, and will be well rooted when sent out.

VARIETIES:

McGOWAN,
STORM KING,
ALASKA,
ANNIE LONSDALE,
IVORY.

DAYBREAK,
SCOTT,
ROSE QUEEN,
PEACHBLOW,
DELLA FOX.

BOERNER,
STUART,
PORTIA,
JUBILEE,
IAGO.

HELEN KELLER,
KITTY CLOVER,
FLOORADO,
CARLEDGE,
TIDAL WAVE.

Fourteen large houses full of Carnations. State how many you will want of each variety in asking for prices.

L. B. 496.

ALBERT M. HERR, LANCASTER, PA.

Della Fox & Annie H. Lonsdale

MYERS & SAMTMAN, Wyndmoor, Chestnut Hill, Phila.

CARNATIONS for 1900
EDWARD SWAYNE, CARNATIONIST

Dear Sir,
I have pleasure in giving you 25 cuttings of our column and color variety, particularly to Carnation. I enclose which we have been destined to give the best of place among others. It has taken up equal space on each side and in the market, being of double character of ordinary varieties. Also to Fargue's Violet which is making quite a stir in New England and of which we have very bright green stock.

Yours truly,
Edward Swayne

CHRYSAETHEMS
Enderdown
H. W. Riemer

MT PLEASANT, Iowa, 2-26, 1896
J. J. STYER, Dear Sir:—The carnations bought of your have been received in good condition and they were the finest rooted cuttings I ever saw.

Very truly,
J. W. THOMPSON.

10,000 PLANTS OF MRS. FISHER,
rooted in October and now in
beds; the best white for sum-
mer blooming, \$15 per 1000.

J. J. STYER, Concordville, Pa.

CARNATIONS

Rooted Cuttings.

Perfectly clean and healthy, and will be well rooted when sent out.

Daybreak, Scott, McGowan, Puritan, Silver Spray, Tidal Wave, Portia.

Delivery Feb. 15 and later, \$1 per 100; \$8 per 1000.

Mme. Albertini, Emily Pearson,
Helen Keller.

Delivery Feb. 15 & later, \$1.50 per 100; \$10 per 1000.

TERMS CASH WITH ORDER.

MAGNUSON & PEARSON,

Bowmanville, Station X, Chicago.

CARNATIONS.

Fine and healthy rooted cuttings of the following:
Meteor, Kohinoor, Bride of Ericscourt, Rose Queen,
Dean Hole, Lizzie Gilbert, \$1.00 per 100.
Daybreak, Scott, Cartledge, Tidal Wave, \$2.00 per 100;
Silver Spray, Aurora, Portia, Lizzie McGowan, Mrs. Fisher \$1.50 per 100; \$12.00 per 1000.
LADY CAMPBELL VIOLET RUNNERS, in any quantity at \$8.00 per 1000.
JOS. RENARD, Unionville, Chester Co., Pa.

SEND ADVS. FOR THE
Special Spring Number

to reach us before

MARCH 19.

THOSE WHO SEE—EDITH FOSTER

THE
NEW WHITE CARNATION

growing do not hesitate to purchase, it sells on its merits. If you want to try a few **ORDER NOW**, as stock is limited, and more than half sold.

Received Honorable Mention at New York.

Extra fine stock of Daybreak, Scott, Etc.

Send for price list of

NEW AND TESTED CARNATIONS.

PETER FISHER, Ellis, Norfolk Co., Mass.

ROOTED CUTTINGS—Good Ones.

Verbenas, 24 varieties, ... \$0.50 cts per 100; \$7.00 per 1000
Fuchsias, 12 " 50 cts per doz.
Heliotrope, 7 " 20 cts "
New Giant Alyssum 20 cts "
Cuphea Lavie or Cigar Plant 20 cts "
Salvias and Marguerites 20 cts "
Mexican Primroses and Ageratum 20 cts "
Coleus, 12 cts; Chrysanthemums, ... 20 cts "
Roses, 25 cts. Postage, 1 cent a dozen. Cash

J. L. PILLSBURY, GALESBURG, ILL.

SMILAX from 2-inch pots, \$1.50 a 100; strong plants by mail, 50c per 100. **GERANIUMS** from 2-in. pots, \$2.25 per 100. Send for samples. Cash with the order.

FRED. BOERNER, Cape May City, N. J.
Mention American Florist.

The Bridesmaid Carnation

is the pink carnation you want. It averages more HIGH GRADE blooms than any other pink variety grown. It has a long stiff stem, strong calyx, perfect form of flower and a color that cannot be excelled in its class. It sells quickly at a high price, and stands at the head of the list of pink carnations. It won the honors at the American Carnation Society Show at New York as best pink in classes A, B and C. Its growth is clean and healthy.

Order now to get your stock early.

No Rust, Strong Cuttings.

\$5.00 per 100, \$40.00 per 1000.

If you have not already received our list send for it.

F. DORNER & SON,
LA FAYETTE, IND.

The Crack Carnations:



**SCOTT, ALBERTINI,
DAYBREAK, McGOWAN.**

Selected Cuttings, well rooted in sand and soil, delivery February 15th and later, \$2.00 per 100; \$15.00 per 1000.

Send your order at once, with cash, to get these figures . . .

ALEX. McBRIDE,
ALPLAUS, N. Y.

50,000 CARNATIONS ROOTED CUTTINGS

Now Ready

Positively clear of RUST. Send for price list.

William Swayne,

P. O. Box 226. KENNETT SQUARE, PA.

THE BEST

WHITE ALASKA **PINK SCOTT**

CARNATIONS

HEALTHY STOCK NOW READY.

C. PESENECKER & SON, 290 Kilpatrick St.
JERSEY CITY, N. Y.

IVORY, NEW WHITE CARNATION.

Closely resembling Wm Scott in growth of plant and abundance of bloom. Flowers pure ivory white, of good size and fine form.

ROOTED CUTTINGS ready March 1st, \$10.00 per 100; \$75.00 per 1000.

Send for complete price list.

GEO. HANCOCK & SON, Grand Haven, Mich.

CARNATIONS

Orders solicited for **ROOTED CUTTINGS.**

KOHINOOR takes the lead.

Other Novelties of the Standard sorts at standard prices. All healthy and strong.

C. J. PENNOCK,
The Pines. KENNETT SQUARE, Chester Co., PA.

CARNATIONS

Rose Queen

Rooted Cuttings..... Per 100 Per 1000

Strong plants.....\$4.00 \$30.00

No Rust with us.

A. DONAGHUE, Omaha, Neb.

Our Illustrated Descriptive Catalogue and Our Wholesale Trade List for 1896

— OF —

Carnations, Chrysanthemums and Cannas

is now ready, and will be mailed to every florist who sends us his **name** and **address**.

THE COTTAGE GARDENS,
QUEENS, L. I., N. Y.

C. W. WARD, Manager.

CARNATIONS

	Per 100	Per 1000
ROSE QUEEN, ALASKA, MINNIE COOK, }	\$5.00	\$40.00
WM. SCOTT, HELEN KELLER, THE STUART, DAYBREAK, }	2.50	20.00
THOS. CARTLEDGE, LIZZIE McGOWAN, TIDAL WAVE, PORTIA, }	2.00	15.00

FROM FLATS,

EQUAL TO

POT GROWN.

VAUGHAN'S SEED STORE, 84 & 86 RANDOLPH STREET, CHICAGO.

Carnations, Rooted Cuttings,

FROM FINE, HEALTHY STOCK PLANTS.

White—ALASKA, STORM KING, UNCLE JOHN. (no rust) McGOWAN.

Pink—ROSE QUEEN, PEACHBLOW, ALBERTINI, SCOTT, DAYBREAK, CARTLEDGE, Etc.

Scarlet—HECTOR, PORTIA, CORSAIR.

Crimson—METEOR, PRIDE OF KENNETT.

Variegated—H. KELLER, MINNIE COOK, CHESTER PRIDE.

Yellow—DEAN HOLE, BOUTON D'OR, BUTTERCUP, Etc.

All well rooted and sure to give satisfaction. Send for price list.

H. WEBER & SONS, Floral Park, Oakland, Md.

NEW CARNATION, W. D. SLOANE.

This new sort will undoubtedly prove a leader to all Florists securing a good stock in time. We know of no better variety of its color, and none can equal it in fragrance. The plant is a strong and vigorous grower, needing but little support, with dark foliage about as heavy as Tidal Wave. Flowers are large, good substance and lasting qualities, borne on stiff stems 15 to 20 inches in length; color the same as the above well-known variety, a beautiful cerise. Very profuse bloomer, continuing to bloom late into the summer.

PRICE, \$10.00 PER 100; \$75.00 PER 1000.

PITCHER & MANDA, SHORT HILLS, N. J.

ROOTED CUTTINGS CARNATIONS

	Per 100	Per 1000
DAYBREAK.....	\$2.00	\$15.00
WM. SCOTT.....	2.00	15.00
STORM KING.....	5.00	
METEOR.....	5.00	
PORTIA.....	1.50	12.50
TIDAL WAVE.....	1.50	12.50
BUTTERCUP.....	5.00	
MRS. FISHER.....	1.50	12.50
LIZZIE McGOWAN.....	1.50	12.50
ANNA WEBB.....	2.00	15.00

I will give 10 per cent discount for cash with order on the above prices.

EDW. J. TAYLOR, Southport, Conn.

Last Call for Advs.

FOR THE

SPECIAL SPRING NUMBER.

Mail your Copy Quick.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Eldorado, Kitty Clover

The best **YELLOW** CARNATIONS to grow for profit. ROOTED CUTTINGS now ready, @ \$5.00 per 100. Also 30 000 strong rooted cuttings of suitable kinds for summer bloom.

LADY CAMPBELL VIOLETS, root ed runners, @ \$1.00 per 100; \$8.00 per 1000.

W. R. SHELNIRE,
Chester Co., AVONDALE, PA.

DO YOU WANT CARNATIONS?

If so, why not **GROW** the **BEST**?

50,000 ROOTED CUTTINGS, including Daybreak, Wm. Scott, Goldfinch, Lizzie Gilbert, Emily Pierson, Lizzie McGowan, Tidal Wave, S. Spray, Hinz's White, &c.

Can do you justice in quality and prices. Write me before you buy. Address **CHAS. CHADWICK,** Lock Box 11, Grand Rapids, Mich.

Mention American Florist.

50,000 CARNATIONS

from flats, equal to pot grown. Warranted to give satisfaction. Cash with order.

	Per 100	Per 1000
ROSE QUEEN.....	\$5.00	\$40.00
DAYBREAK.....	1.50	12.00
WM. SCOTT.....	1.50	12.00
LIZZIE McGOWAN.....	1.50	12.00
SILVER SPRAY.....	1.50	12.00
TIDAL WAVE.....	1.50	12.00
PORTIA.....	1.50	12.00
J. J. HARRISON.....	2.00	15.00
VIOLETS, MARIE LOUISE.....	1.00	8.00

HENRY A. NIEMEYER, Erie, Pa.

Des Moines, Ia.

Trade has been fair to good lately and growers are pushing their roses and carnations all they will stand. Roses are \$1 to \$1.50 per dozen, carnations 50 cents, daffodils 75 cents, Romans and paper whites 60 cents.

At the meeting of the club at J. F. Marshall's last week J. F. displayed some fine Hinze's Whites that measured three inches across, as fine as ever seen in this section.

I. W. Lozier is cutting some good Mercets and Perles, also fine carnations. He has four houses, using hot water heat. He grows a general stock; also runs a downtown store in addition to his green-houses and grows the plants for The Iowa Seed Company's trade.

Fulmer's place we find crowded. He has but one house and it is devoted to carnations and bedding plants.

W. L. Morris has the largest plant in the city. He has ten houses 116 feet long. Here we enter a large palm house and find all the leading palms in their glory, all looking well. In roses he has Meteors, Woottons, Perles, Kaisersins, Brides, Bridesmaids, La France and American Beauty, all doing fine, Meteors especially. Chas. McNiff, his foreman, understands how to make them do their best. In carnations we find McGowan, Scott, Daybreak, Tidal Wave, Keller and Gilbert. He also has a city store, and a fair trade in the small towns throughout the state.

R. L. Blair we find at work in his city store. He has a fine run of customers and devotes his time to his store, only having glass enough to keep his palms for decorating and to grow bulbous stuff.

J. T. D. F.

Bay City, Mich.

Our attention is called to an item published on page S30 of the AMERICAN FLORIST of March 7 in relation to the mortgage recently given by our company and in as much as the article is not correct we have thought best to give you the facts.

The expressed consideration of the mortgage was \$17,000, and it secures debts scheduled to the amount of \$16,611.04 owing at the date of the mortgage (February 18, 1896) and it also secures three firms from whom we were buying flowers for any indebtedness that might thereafter accrue to them without specifying any amount.

With these important differences your item is correct.

JOHN IRVINE GREENHOUSE CO.

Mr. H. Nanz, secretary and manager of the Nanz & Neuner corporation, Louisville, Ky., reports a number of complaints from southern Illinois that a party going by the name of H. G. Nanz is representing himself to be a member of the above firm, and under this cover securing recognition to which he is not entitled. Mr. Nanz writes that his company has no relations with the party, and that it does not have any traveling agents.

PANSIES.

Grown from superior seed. Per 100 Per 1000
Large transplanted plants.....\$.60 \$ 4.40
MAMMOTH VERBENAS......70 5.50
SMILAX, 2 1/2-inch.....1.00 7.00
NEW CALIFORNIA VIOLET-Rooted
Runners.....1.00 8.00
AZALEA INDICA, 13 to 16-inch, full of buds, 65c. each.
These plants are ready to be delivered at once.

S. WHITTON & SONS, Wholesale Florists,
City and Green Sts., UTICA, N. Y.

When writing mention the AMERICAN FLORIST.

SPECIAL SALE
CANNAS.100,000
100,000

Strong dormant roots, wintered under our carnation benches, and in perfect condition.

50,000	CHAS. HENDERSON.....	@	\$3 00	per 100;	\$25 00	per 1000
25,000	ALPHONSE BOUVIER.....	@	2 50	"	20 00	"
10,000	GEOFFROY ST. HILAIRE.....	@	2 50	"	20 00	"
10,000	MME. CROZY.....	@	3 00	"	25 00	"
1,000	QUEEN CHARLOTTE.....	@	7 00	"		
500	EHEMANNI.....	@	6 00	"		
35,000	Other sorts.....		\$3 00	to	6 00	"

No order for less than \$5.00 accepted.

No less than 500 at thousand rate.

EVERYBODY CAN AFFORD TO BUY CANNAS AT THESE PRICES.

Cash with Order.

Orders by wire from responsible firms will receive prompt attention.

THE COTTAGE GARDENS,

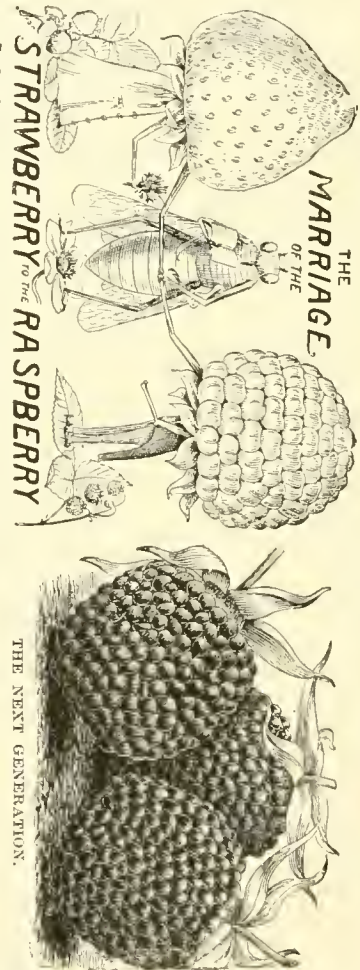
C. W. WARD, Manager.

QUEENS, L. I., N. Y.

Our illustrated catalogue fully describing the above peerless Cannas will be mailed on receipt of your address.

THE LOVETT CO., Little Silver, N. J.

Five well-established plants like shown in accompanying figure: doz., \$1.00; 100, \$5.00; 1000, \$45.00.



HEADQUARTERS FOR STRAWBERRY-RASPBERRY.

THE
MARRIAGE
OF THE

THE NEXT GENERATION.

Mention American Florist.

Ink and Think

are combined in all work done at the Mount Pleasant Printery. The best results and best looks for your money. Write to

J. Horace McFarland Co.

Horticultural Printers,

Harrisburg, Pa.

Palms & Ferns.

Our 17 collection, 3 & 4-inch \$3, 34 for \$5; 10 4 & 5-inch \$3 50, 20 for \$6; 6 1/2-in. for \$5. All good selected varieties. Special sale: Choice FERNS, \$5.00 and \$6.00.

ROSES and GERANIUMS, LABELS, MOSS, ETC.

WILLIAMS & SONS CO., Batavia, Ill.

Mention American Florist.



New Seedling Chrysanthemum WM. SIMPSON.

Certificate of Chrysanthemum Society of America, November 2d, 1895.
First Premium for best Pink American Seedling, Pennsylvania Horticultural Society Exhibition, November 5th, 1895.

Certificate of Merit, Pennsylvania Hort. Society, November 5th, 1895.
Silver Medal for best American Seedling, Pennsylvania Horticultural Society, November 5th, 1895.

See Garden and Forest, - Nov. 20th, page 465
" Florists' Exchange, - Nov. 23d, " 1144
" American Gardening, - Dec. 14th, " 415.
" American Florist, - Jan. 25th, " 652.
" Gardening, - Feb. 1st, " 151.

It is the **EARLIEST LARGE CHRYSANTHEMUM GROWN.** Has been cut as early as Oct. 15th; flowers measuring 11 inches in diameter. A good strong healthy grower, stiff stem, 4 to 5 feet high, with clean foliage.

Will be sent out March 15th, 1896. Price to the trade,

\$5.00 per dozen; \$35.00 per 100; \$200.00 per 1000.

JOSEPH HEAGOCK, Wyncote, Pa.

Aud for sale by Henry A. Dreer, 714 Chestnut Street, Philadelphia; Henry F. Michell, 1018 Market Street, Philadelphia; Geo. C. Watson, 43 N. 10th Street, Philadelphia; E. G. Hill & Co., Richmond, Ind.; Nathan Smith & Son, Adrian Mich.; The Cottage Garden, Queens, L. I., N. Y.; Henry G. Standen, Haverford, Pa.; A. Blane, Philadelphia, Pa.; Robt. Craig, 49th and Market Sts., Phila.; J. C. Vaughan, 81 Randolph St., Chicago, Ill.; John N. May, Summit, N. J. Mention Am. Florist.

OUR NEW CHRYSANTHEMUMS FOR 1896

Have been fully indorsed by the
Chrysanthemum Society
of America.

Descriptions and prices free on application.

**NATHAN SMITH & SON,
Adrian, Mich.**

Neponset Flower Pots

of Waterproof Paper, are sold
as follows:

Terms—Net cash with order. If ordered shipped by
freight, add 50 cents cartage.

Size	Packed in Crates of	Gross Weight per 1000 pots	Per 100	Per 1000
2 1/4 inch	1,000	about 20 lbs.	\$0 25	\$2 50
2 3/4 "	1,000	" 23 "	" 30	" 3 00
3 "	1,000	" 24 "	" 35	" 3 50
3 1/2 "	500	" 45 "	" 50	" 5 00
4 "	500	" 76 "	" 60	" 6 00
5 "	500	" 110 "	" 90	" 9 00
6 "	500	" 150 "	" 1 50	" 15 00

Standard Pot Measure.
Less quantities than full crates at 100 rates.

F. W. BIRD & SONS, Manufacturers.

Address orders to our General Agents,

**August Rölker & Sons
New York. P. O. Station E.**

or R. & J. FARQUHAR, Boston, Mass., Eastern Agents.

The forms for our
Special **SPRING
NUMBER** close
promptly the morn-
ing of **MARCH 19.**
Don't get left.

PINK IVORY.

Strong healthy plants, \$1.50 doz.; \$4 per 50; \$6 per 100

Most complete collection of Chrysanthemums and Cannas at lowest prices.

Begonias, \$2.25 per 100. If interested send for list. Seed of either 25c.

20 VARIETIES, 5 OF EACH, CUSTOMER'S
SELECTION, \$4.00.

J. E. Lager Mrs. P. Palmer Edith Smith
L. Slevens G. M. Pullman Latest Fad
M. Henderson Comrades Ed. Key
Trilby G. Crompton H. Bloodgood
W. H. Hurley Gladys Spaulding E. Heacock
H. Klemm Jeannie Falconer Fred Walz
Mrs. R. Dean G. Pitcher Gold Dust
L. D. Black J. H. Troy Mrs. Higinbotham
S. T. Murdock W. B. Dismore Jos. Thomson
Mrs. J. N. White Zullinda C. d'Arville
M. R. Parker, Jr. F. L. Atkins Pride of California
Olympus Nemesis Golden Hairs
Fisher's Torch H. E. Weldersheim (early)
Louise Egerton (new white) Lady Playfair

20 VARIETIES, 5 OF EACH, CUSTOMER'S
SELECTION, \$3.00.

E. Daffledouze Wm. Seward Ivory
Silver Cloud F. Bergmann Mineira
Florence Fullman Niveus Pres. Smith
Major Bonaffon Marie Louise Charlotte
Monarch Ostrich Challenge Radiance
Plume Snowflake Yellow Queen
Oakland The Queen Titian
Jayne J. J. Hill Wallace Barston
Freedom Mrs. H. F. Spaulding M. Abbott
M. M. Parker d'ing Katherine Leech Crystalina
Good Gracious Eva Knowles Maud D. Reynolds
Bronze Giant V. Morel
C. Shrimpton C. Davis

STRONG, HEALTHY PLANTS; NO ROOTED RUBBISH.

Send for Trade List.

T. H. SPAULDING, 40 East 25th Street, NEW YORK.

TWO BEAUTIFUL NEW CHRYSANTHEMUMS

GRETCHEN BUETTNER.

MRS. E. BUETTNER.

A large, beautiful white of great depth; distinct
in color and form. Strong stem and fine foliage.
3 1/2 ft. Crown bud. Certificate of Merit Horticult-
ural Society, Chicago. First Class Certificate N. C.
S (See AM. FLORIST, Nov. 16)

\$5.00 PER DOZEN; \$35.00 PER 100.

READY MARCH 1, 1896.

A beautiful clear yellow reflexed flower, in
form like Morel, with excellent stem and foliage.
Late. 3 1/2 feet. Crown bud.

First Class Certificate N. C. S.

\$4.00 PER DOZEN; \$25.00 PER 100.

ORDERS BOOKED NOW.

E. BUETTNER, Park Ridge, Ill.

PINK IVORY,

(MISS AGNES L. DALSKOV.)

Strong, healthy plants from 2-inch pots, \$2 00 per dozen;
\$10 00 per hundred.

M. HANSEN, New Durham, N. J.

Mention American Florist

CHRYSANTHEMUMS.

Strong plants from 2-inch pots.

ALL STANDARD SORTS,

\$2.00 per 100; \$15.00 per 1000.

Write for varieties.

THE NATIONAL PLANT CO., Dayton, O.

CHRYSANTHEMUMS.

50 New Varieties, including

Miss M. M. Johnson, J. E. Lager, Philadelphia, Mi-
neira, Marie Louise, J. H. Troy, Mrs. Henry Robin-
son, Sunrise, Miss G. Pitcher, John Shrimpton, Royal
Windsor, Mrs. S. T. Murdock, H. W. Klemm, Miss F.
Pullman and Zullinda. Fifteen plants for \$1. Send
for catalogue. Address

M. B. LITTLE, Clens Falls, N. Y.

Syracuse, N. Y.

The date of Mr. Grove P. Rawson's lecture "Philosophy of Vegetation" has been changed to the 19th of March, some of the members of the Central New York Horticultural Society thinking the 17th would be so green that a large attendance could not be secured; it will not be the fault of the members if there is not a very large attendance. A committee has been appointed to see that the rooms are well decorated with plants and flowers.

H. Burt has greatly enhanced the appearance of his inviting store by the addition of a magnificent cooler, the dimensions of which are 8 feet high, 8 feet long and 6 feet wide. The front and ends have solid plate glass, at the back a large mirror runs from top to bottom; the arrangement of the electric lights is perfect and the effect is most beautiful.

The weather is dull and business the same. March came in like a full grown lion, and we trust he will go out like a little lamb with plenty of sunshine to bring on our Easter flowers. H. Y.

Hartford, Conn.

Mr. D. A. Spear's store on Asylum street, is once again in fine shape. Mr. Spear underwent a deal of inconvenience on account of an adjoining building now in course of erection, making it necessary to put up with a temporary affair and plenty of dust, etc. until the "party wall" was completed.

Mr. G. W. McClunie has built a carnation house 151x21 and a violet pit 150x6, both being well planned and substantially constructed. The houses are heated by hot water. HOMO.

Norwich, Conn.

Mr. J. F. Smith has consummated a deal whereby he acquired three acres of valuable ground adjoining his green-houses.

Mr. Smith contemplates building an additional good sized carnation house, he will also give his entire plant a thorough overhauling, intending to make extensive alterations and additions about some of the houses.

Business has been exceptionally good all through the winter and good stock invariably commanded fair prices. HOMO.

BRILLIANT GREEN AND BRONZE GALAX LEAVES.

LARGE AND SMALL SIZES.

The finest quality, perfectly packed, prompt shipments, special low Express Rate.

All leading WHOLESALE FLORISTS, or price and Free Sample of

CHAS. H. RICKSECKER,
LINVILLE, Mitchell Co., N. C.

TOBACCO STEMS FOR FLORISTS.



For Sale, packed in bales 200 to 250 lbs.

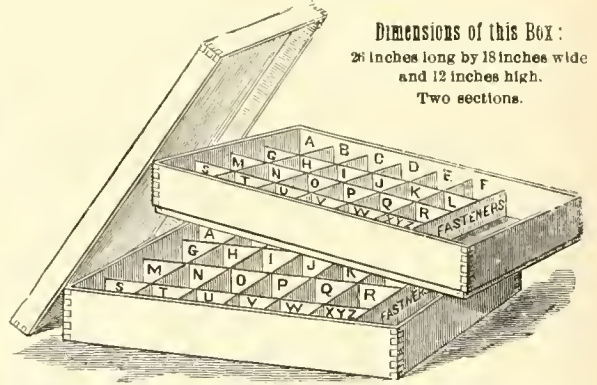
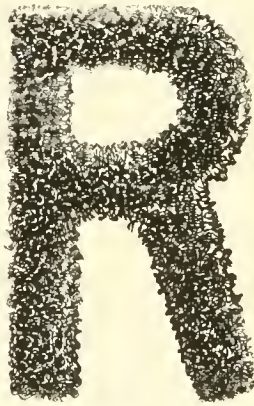
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PRICE:

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This wooden box nicely stained and varnished. 18x30x12. Made in two sections, one for each size letter, given away with first order of 500 letters.

BOSTON FLORIST LETTER CO.

Manufacture the Best Letters in the Market.

Sizes 1½-in. and 2-in. 2.00 per 100. Patent fastener with each letter.

OUR NEW SCRIPT LETTER, \$4.00 per 100.

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1866.

LEMON OIL INSECTICIDE,

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Manufacturers of

TIN FOIL

2 AND 4 DOMINICK STREET,

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For Quick Shipment

HOT-BED SASH.

NOT GLAZED, 1 3/4 inches thick.

THESE SIZES IN STOCK:

3 ft. x 6 ft. 3 rows, 10 in. glass.

3 ft. 3 in x 6 ft. 4 rows, 8 in. glass.

Made of strictly clear CYPRESS LUMBER and warranted.

FIRST-CLASS.Write for prices, **delivered.**

State quantity wanted.

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For Greenhouses, Conservatories, Graperies, Hotbeds, and all other purposes, at Lowest Rates.

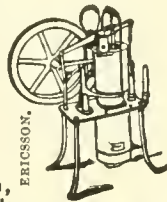
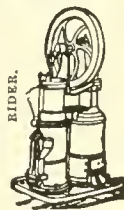
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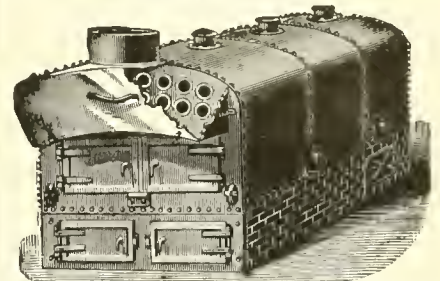
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**GREEN HOUSE,
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or any other purpose.
Send for illustrated CatalogueOF THE
**DE LAMATER-RIDER AND
DE LAMATER-ERICSSON****PUMPING
ENGINE.**

Their operation is so simple and safe that a child can run them. They will pump water from shallow streams or any kind of well. They can be arranged for any kind of fuel. Capacity 1,500 to 30,000 gallons of water a day, according to size.

The De Lamater Iron Works,
467 West Broadway,
NEW YORK, N. Y.**HOT-AIR
PUMPING
ENGINE.****Kroeschell Bros. Co.****IMPROVED****Greenhouse : Boiler,**

41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

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— FOR OUR —

SPECIAL SPRING NUMBER

TO BE ISSUED

Next Week.

It will have an unusually handsome title page in two colors, will be very elaborately illustrated throughout and full of good things. In short it will excel any special number we have ever issued.

THOUGH THE ADV. SPACE IN THIS ISSUE WILL BE OF EXTRA VALUE WE
SHALL MAKE NO INCREASE IN RATES.

Send advs. to reach us by

MARCH 18 AT LATEST.

If they come in the first mail on the 19th we will get them in for you, but avoid delaying till the last moment.

AMERICAN FLORIST CO.

P. O. Drawer 164.

..... CHICAGO.

News Notes.

PONTIAC, ILL.—W. J. Miller will add a new house 8x80 for violets and vegetables and will put in a larger boiler.

STAFFORD, CONN.—W. G. Tyler will take charge of G. H. Baker & Co.'s greenhouses in place of John Brick, resigned.

TUSCOLA, ILL.—Fire did \$250 worth of damage to the office and palm house of the Tuscola Floral Co. last week.

QUINCY, MASS.—John Nichol has been reappointed superintendent of public burial places for the ensuing year.

PITTSFIELD, MASS.—The Gardeners' and Florists' Club are considering the advisability of holding a spring flower show this year.

BELMONT, MASS.—The forcing houses of G. O. Wellington were damaged by fire on the morning of February 27 to the extent of \$500.

MINNEAPOLIS, MINN.—Louis G. Venzke, the florist, has made an assignment for the benefit of creditors. The assignee is Charles Conradis, a lawyer.

SOUTH FRAMINGHAM, MASS.—On the night of February 26 the large barn and storehouse of the Framingham Nursery Co. was totally destroyed by fire.

NEWARK, N. J.—John Ritchie has instituted suit against the wife of Thomas A. Edison for \$60 claimed as due for a month's salary as head gardener.

BARNARD CROSSING, N. Y.—The firm of Payne & Veness has been dissolved by mutual consent. F. S. Payne continues the business. Mr. Veness will remove to Michigan.

STEVEN'S POINT, WIS.—The Broonie & Hamilton Co. has been incorporated to carry on a general florist and nursery business. Capital stock \$700. Incorporators: A. V. Broonie, W. N. Hamilton and others.

SARATOGA SPRINGS, N. Y.—A citizens committee will endeavor to get a bill through the legislature authorizing the issuing of bonds not to exceed \$100,000 for the establishment and maintenance of a public park.

HILLSDALE, MICH.—R. H. Hoffman, florist for the L. S. & M. S. R. R. Co., and in charge of their greenhouses here, has been arrested at the instance of the Company on a charge of embezzlement in converting plants, etc., belonging to the Company to his own use.

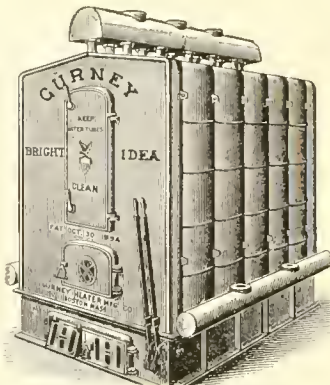
WINCHENDON, MASS.—James Sutherland, 3d, has retired from the firm of Sutherland & Whittemore, but the firm name will be retained by Mr. Whittemore, who will continue the business. Mr. Sutherland will engage with his father, Jas. Sutherland, Jr., at Athol.

Jones, McDuffee & Stratton, Plant Pots and Pedestals

of all grades, sizes and values, direct from the best Potteries of England, France, Germany, China Japan and the U. S.

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120 Franklin St. cor. Federal, Boston, Mass.
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"Bright Idea" Safety Water Tube Boiler.
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HOT WATER OR STEAM.

They possess to the highest degree the essential elements of construction which places them in the foremost rank for

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CAPACITY FULLY GUARANTEED.

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Standard Flower Pots.

Send for our new price list, with extra discounts. All of our Pots from 7-inch and upwards have our Patent Excelsior Bottom, which is a great advantage as it insures perfect drainage.

A FULL LINE OF BULB PANS.

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STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere. Our facilities are unequaled.

A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

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OUR POTS ARE OF THE BEST QUALITY.

We ship all goods from Cincinnati, guaranteeing lowest freight rates and prompt delivery.

Write us before placing your orders elsewhere.

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Ware bright red, and First-Class. Send for cut prices.

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Making a Specialty of

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Send for price list and samples (which will be sent free), and we know you will give us your order.

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SAVE YOUR \$ \$ \$ by using our HANDY SASH LIFTER.

For prices, apply to
GEO. W. HAMILTON, 176 Sidney St., Dorchester, Mass.

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Special Spring Number
close PROMPTLY the
morning of March 19.
Don't get left.

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GREENHOUSE MATERIAL OF
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JOHN C. MONINGER CO.
297 TO 307
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WILKS HOT WATER HEATER.
BEST IN USE
FOR GREENHOUSES, SMALL.
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IS MUCH MORE DURABLE THAN PINE.
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UP TO 32 FEET IN LENGTH OR LONGER.
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MAIL YOUR COPY QUICK.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.



Clear Cypress Greenhouse Material

We have had many years' experience in this line. We introduced Cypress for greenhouse construction. We have made many improvements in the construction of greenhouses. We carry in stock many different designs of Rafters, Sash Bars and everything else from the bottom of gutters up. Our facilities are large, and we are prepared to furnish on short notice material of our own designs or any special designs, and all of open-air-dried clear Cypress Lumber which we have bought for many years of one party because this particular growth of Cypress is as soft as White Pine, and has none of the knots, sap and other defects so common to White Pine. Every foot of our stock is guaranteed Spot Clear. Write for circulars and estimates. No trouble to furnish plans when necessary.

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LOCKLAND, O.

H. M. HOOKER COMPANY,

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NATURAL GAS MADE GLASS, FOR GREENHOUSES.

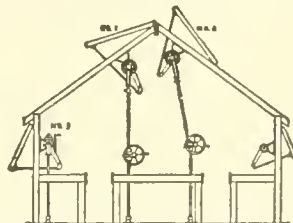
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POPULAR STANDARD VENTILATING MACHINE

The florist's friend in working and prices.



No repairs for 5 years no chains to break as is the result with others.

Opens Sash uniform on 100 foot houses. A new device.

Send for Catalogue and estimates.

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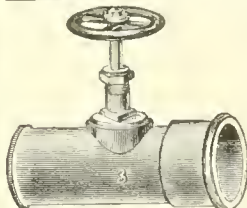
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Send for Catalogue, enclosing 4 cents in stamps.

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DO IT NOW.

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Richmond, Ind.

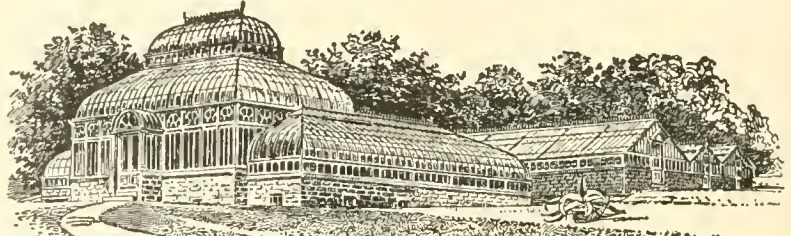
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AND LARGEST MANUFACTURERS OF
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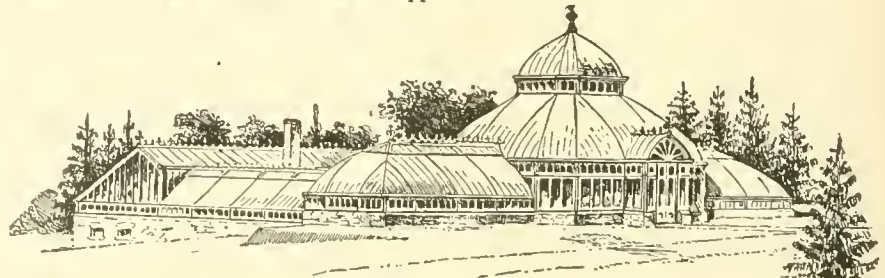
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Horticultural Architects and Builders,

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THE
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By HOT WATER CIRCULATION.

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FOR HEATING

American Boiler Company

"We Heat the World"

NEW YORK: 94 Center Street.
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must reach us
early March 19
to be in time.

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Natural
prepared
CYCAS LEAVES
EQUAL
TO FRESH CUT
Prices per Pair
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DEATH TO RED SPIDER.
HAS COME TO STAY.

Ask your dealer for it. SELLS FOR 75 Cents.

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A VERY STRONG NICOTINE SOLUTION.

Applied by boiling on small kerosene stove; evaporating pans; painting pipes; special steam cylinders; dropping red hot iron weights or fire-bricks into narrow pans containing diluted extract; or, by syringing. TRY IT!

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1-gallon can 1.50

...PREPARED BY...

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THE AMERICAN FLORIST

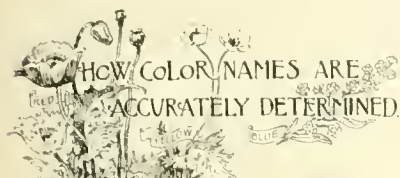


America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas.

Vol. XI

CHICAGO AND NEW YORK, MARCH 21, 1896.

No. 407



It is a very simple matter to determine the character of a color, if one pursues a systematic method of comparison. When we have become certain of a single color we are of the highroad to success in determining all the others.

The prism certainly decides three simple colors, but strangely enough, in a very subjective manner. We do not positively see unalloyed red, blue and yellow in the spectrum, but in the colors we do see there, orange-red, yellow-green, and blue-purple, we can easily detect an understratum of the three simple colors which are the essential make up of all colors.

Fig. 1 shows, as well as can be expressed by black and white, the general range of spectrum color. We may call the three predominating hues, violet, green and red, or if we choose to be specific in the names, blue-purple, yellow-green and orange-red. I say orange-red guardedly, for I wish it to be understood that although the spectrum red is not pure throughout its full extent, it is far less an orange-red than vermillion is; in general effect it more nearly resembles cherry-red; but in actual fact it is not far from pure red. The yellow-green is also not far from pure green, and the blue-purple is

colors. Here, then, we are absolutely sure of a bit of ground upon which we can stand; we are certain that two colors are mixed. The next thing to do is to unmix them! Our method of comparative analysis will do this.

With the purest of color pigments I proceed to match as many hues in the spectrum as seems possible; this is a long bit of work, but not a very difficult one. I take ten bits of cardboard and paint on each one a color representative of the tenth part of the spectrum (see the ten names on the upper side of Fig. 1). Next, I take each alternate one of these ten colors and make for it four neighbors, two to stand on the right, and two to stand on the left, missing links in fact, which will connect it better with the twentieth portions of the spectrum colors which lie on either side.

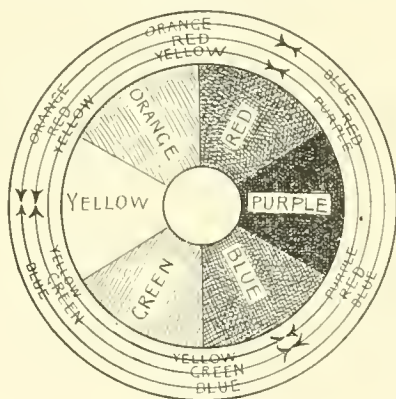


Fig 3

It will now be understood that I have thirty strips of color; thirty links to a continuous chain which is sure to comprise within its limits, somewhere, the three pure simple colors, red, yellow and blue. The result of my careful gradation of hues now enables me to select about five reds with which I begin another system of subdivision.

I find that it is possible to mix two more reds which will by finer gradations fit between each of the colors already obtained. So I keep on through all the different colors until I have a system which



Fig 4

includes no less than ninety colors! Now comes the rub! Some one may challenge me at the outset with the question, "How did you get red, your representative red, in the first place?" My answer is, "I carefully guessed at it!" That seems like

a very unscientific and unreliable beginning, but it is not. I must start my investigations on some hypothesis, it is justifiable to begin with a suppositive pure red; in the end it is always possible to prove whether the supposition was correct or not; the ultimatum of the

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90

Fig 5

ninety graduated hues means that if I guessed wrong at red, I could not find space on one side of it for its gradation toward yellow-red, and there would be too much space on the other side for its gradation toward purple. As a matter of fact one does not usually hit the color exactly, but the mathematical accuracy of the system of comparison enables one to obtain the "bearings" without confusion. Besides all this, it is reasonable to suppose that one can guess approximately at the true red in the spectrum; indeed, the value of the

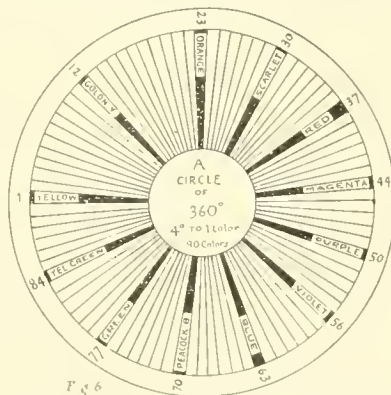


Fig 6

spectrum as a guide lies in the fact that while it does not exactly reveal red, it locates the color within a limited range beyond peradventure.

The proper placing of red therefore, is dependent upon a careful gradation of yellow-reds on the one hand and blue-reds on the other. By the help of a variety of pigments, one may, so to speak, drive pure red into a corner by flank movements of yellow and blue! With rose-cathame, rose madder, carmine,

simply violet, which is, of course, a much bluer color than purple.

Fig. 2 shows my idea of the understratum of blue and yellow; I add magenta-purple at the extreme left to indicate the reddish tinge which the last violet rays of the spectrum possess. My diagram is intended to represent the principle of overlapping hues; it also points to the curious fact that pure green, blue, yellow, and red are reduced to zero points on borders of unquestionably mixed colors!

Fig. 3 shows the spectrum colors arranged in a circle. Fig. 4 shows the extended influence of the primary

Jacque-lake, and crimson-lake among red pigments, and with various tinctures of magenta and orange we have fairly surrounded pure red, and it becomes only a matter of careful comparison before it is surely discovered. There is no feeling for it or guessing at it; the closing in of the ranks of blue-red on one side and yellow-red on the other means that at the point where they meet is the uncompromising long-sought color.

Flower petals I have used in the same way, and it is astonishing to note the results of a careful comparison of carnations, roses, nasturtiums, cannas, phloxes, gladioli, poppies, and hollyhocks, gradually one finds the yellow-red and the blue-red less and less pronounced until finally there are only four or five flowers to choose from, and among these there is sure to be some specimen which very closely matches the conclusive red arrived at by means of the artists' pigments. In this way I make the truth of the flower vouch for the truth of the pigment, and in both cases the testimony regarding the slight yellowishness of the spectrum red is the same.

The color wheel, which mixes colors by rapid revolutions, is another method for obtaining the truth of color; the conclusive red is fastened to the wheel and half of its surface is covered by lemon yellow; when the disk is whirled around rapidly the color produced is a dull imitation of the red in the spectrum. But the color wheel is unreliable in one respect; it does not blend color as a paint-brush does, and it does not reveal the full value of yellow; still, it practically enables us to arrive at the same results with mixtures of different reds, and it tells a story similar to the flower-petal and the artist's pigment.

I must call attention now to the chart of flower-colors published by the AMERICAN FLORIST in the issue of August 17, 1895. Here are thirty-six representative hues, one-third of which are sections of the prismatic range; they are yellow, blue, red, scarlet, violet, purple, magenta, crimson, blue-green, orange, golden-yellow, and scarlet orange. These chart colors if they are to deserve the names printed under them cannot be greatly modified. The color named pure red is qualified as a trifle bluish in the article I wrote, which was published with the chart as its indispensable accompaniment. No pigment as brilliant as this and approaching nearer the pure red was free from yellow. Hence, it seemed advisable (for reasons stated at the time) to present the red which bordered on blue. The color named pure blue might be varied as much as the red is without endangering its title, the yellow might vary toward green, but not a hair's breadth toward orange.

Scarlet is entitled to a wide range; the example on the chart is but one phase of this brilliant orange-red. The other colors are also capable of a wide range, but they are at present so nicely balanced on the chart, that they cannot be disturbed without endangering the relative value of *all* the colors.

It is surprising to know that quite recently two or three charts of typical colors have been published in this country which I find cannot stand before the simple test of comparative analysis which I have just explained. It is difficult to understand why any errors should occur in the comparative examination of colors. With nearly one hundred examples of carefully graduated pigment color before it, a trained eye certainly cannot err. If these charts had been the out-growth of such



CANNA ALPHONSE BOUVIER.

careful comparison, they would have demonstrated something much nearer the truth. The purpose of a chart is questionable, also, if it undertakes a presentation of the mixed spectrum colors; mixed color is *not* what we want to know, it is pure color we wish to have represented to us as perfectly as pigments in their impurity will permit. But in the making of a chart it is possible that errors occur in the press room, and in the completed edition the originator of the color scheme finds his ideas misinterpreted.

In the case of the AMERICAN FLORIST chart, I arranged with the printer to have the names of the colors printed *after* the chart came completed from the hand-press; even then I would not trust to the possible discrepancies of the steam-press edition, and I arranged with the editor of the AMERICAN FLORIST to have published simultaneously with the chart, an article which would enable me to correct any deviations which might appear in the steam-press edition; fortunately these were very slight and needed very little righting. It should not be forgotten, however, that colors are variable in themselves; and by no fault of the printer they will undergo a change in the press. But such variations are usually slight and inconsequential, and they certainly may be corrected verbally by the compiler of the chart. It is sufficient further to

say that the proving of the graduated pigment color by colored glass—that is, by sunlight passed through strips of colored glass—was satisfactory inasmuch as the results obtained were not different in any respect from those attending the experiments with pigment color.

I am justified therefore, in the belief that pigments are adequate means whereby we may identify colors. Let me demonstrate how simple the method of identification is with ninety color strips before us (see Fig. 5). The interval between pure orange and pure red becomes divided into fourteen parts; exactly half way between we find a representative scarlet (50 per cent orange and 50 per cent red); the interval from pure yellow to pure orange comprises twenty-two parts; half way between is golden yellow; the interval from yellow to green comprises fourteen parts; half way between is a color with an exact balance of yellow and green; the interval from yellow through green to blue is comprised of twenty-eight parts; half way between is pure green; the interval between red and blue is comprised of twenty-six parts; half way between is purple; the interval between purple and red is comprised of thirteen parts; half way between is magenta; the interval between blue and green is comprised of fourteen parts; half way between is peacock-blue.



ALPHONSE BOUVIER.

PAUL MARQUANT, FLORENCE VAUGHAN AND ALPHONSE BOUVIER
CANNAS.

I always find that the mixed color exactly between two simple colors is composed of fifty per cent each of the simple colors.

This, I conclude, is a practical method of localizing a color and on this basis I give it a specific name. If such colors as peacock-blue, purple, orange and scarlet are generally understood to be half-and-half in their character, then my theory of their location in the spectrum is correct and as I have already said, if we can identify one color, by means of it we can identify all; I have not tried to subdivide color into more than ninety parts, as such a thing would be difficult beyond conception, and I find the nicety of distinction between these ninety is about all which my eye, the pigments, and the palette knife can very well manage; anything further would seem like "splitting hairs," not colors!

F. SCHUYLER MATHEWS.

Cannas.

In this issue we present a large number of pictures of cannas, showing wherever possible a bed of plants of each variety as well as a truss of bloom, thus making it possible to judge as accurately as is possible from pictures of the questions of habit, and tendency to flower continuously as indicated by the branching of the flower spike. The photographs were taken last September, and the majority show beds growing last year in Washington Park, Chicago, under the care of superintendent Fred Kanst, who has had unusually good facilities for testing the value of the different varieties as bedders, and who is much interested in the canna as a bedding plant.

We also present in this issue a careful review by Mr. Kanst of his experience with varieties that he has grown.

REVIEW OF VARIETIES.

ANDRE, EDOUARD.—It is behind the

times now. Better ones have taken its place.

ATKINSON, C. H.—Have discarded it.

BENOIT COUSANCAT.—Has no particular merit. Should not be grown any more.

BERCKMANS, P. J.—It is a good canna with beautiful foliage, but is not up to the standard.

BOULANGER, GEN.—Have discarded it.

BOUVIER, ALPHONSE.—One of the best scarlets we have to-day, though some people object to its drooping habit. But taking everything into consideration for my own part I do not think that is such a detriment as far as general appearance is concerned. I do not know what canna you can use for general appearance that is better. It is an easy grower, good propagator, has good tubers and stands well in summer.

BOUVIER, MME. ALPHONSE.—A good canna and a coming one. Ought to be grown more than it is. It is not known



GEO. NICHOLSON.



EGANDALE.

CANNAS

enough. It is a good bedder and a good propagator, also stands well out of doors.

BRUANT, PAUL.—A scarlet canna and a good one. Saw it at the time of the World's Fair. But it seems to have gone back.

BUCHNER, SOPHIE.—Is a good scarlet canna, but does not seem to go ahead. It is one that is good in any collection for variety.

CABOS, J. D.—Is a good canna for its dark foliage. It is free flowering and a good grower, good bedder and fair propagator. On account of its running roots it has been dropped to some extent.

CARNOT, PRES.—Is behind the times now. Better cannas have taken its place. It is a canna that should not be grown very extensively except for variety.

CHARLOTTE, QUEEN.—Is a good canna of its kind. Good propagator; stands well and blooms all summer.

CHICAGO.—In my opinion the best scarlet in cultivation. Good bedder, fairly good propagator and has large flowers. Is a good deal on the order of Mme. Crozy. Particularly valuable from a decorative standpoint. The flowers hold well and when they do fall off they fall clean.

CHILDS, GEO. W.—No particular merit. CHILDS.—It is like Florence Vaughan, only not nearly so good.

CHOISEUL, COMTE HORACE DE.—Was

quite a good canna when it first came out. Others have taken its place.

COLUMBIA.—It is a good canna but Chicago has taken its place. The flowers don't open up well and they stay on until you have to pick them off, and it propagates slowly. The color is a little darker than Chicago.

COULOUVRATS, M.—It is a pretty good canna but Egandale is better.

COURBET, AMIRAL.—We dropped it.

CRAMPBEL, EXPLORATEUR.—It is a very bright scarlet, but we have others that are better. Commercial men have dropped it.

CROUSSE, FELIX.—I do not consider it worth while to grow this canna.

CROWN JEWEL.—Discarded it.

CROZY, ANTONIX.—Dropped it. Did not flower freely. Below the standard.

CROZY, MME.—One of the best cannas for general use. Easy propagator and if you only have one canna it is always pleasant to look at Mme. Crozy. If I were cut down to one canna I would take it. Has more flowers and makes more show than any other canna. Blooms all summer.

CROZY, SOUV. D' ANTOINE.—No particular merit.

DAVID, PROFESSEUR.—Orange color. We dropped it because we had other orange colored cannas that were better. Below standard.

DODDS, GEN.—It is a good dark foliage

canna but Egandale and J. C. Vaughan are in its way.

EGANDALE.—If I could have only one dark foliage canna I would pick this. It is an easy grower, and can be pulled up in the fall, thrown under the staging and taken out in the spring and it is all right.

EHEMANNI.—A shy bloomer. I do not know of a canna that has the same color, but it is too late a bloomer.

ELLIOTT, J. WILKINSON.—Of no particular merit.

FAIVRE, PRES.—A dark foliage canna. Flowers are too insignificant. Egandale has taken its place.

FLAMINGO.—A coming canna; color of Chicago; good bright canna. There is a place for it and it is one that will stay with us.

GARDEN, THE.—It is not strong enough for our winds. Flowers fall off too quickly.

GERMANIA.—It was exhibited by the Germans at the World's Fair, and I considered it at that time an improvement on Mme. Crozy, about the same color and the petals were very strong. If it were placed in a bed with Mme. Crozy it would bother most people to pick out one from the other.

GOURY.—Discarded. Not up to the standard. What I call standard is a flower with a good broad petal, one that can stand our winds and plant free blooming.

GRAY, SOUVENIR D' ASA.—Discarded.



EGANDALE

GEO NICHOLSON
CANNAS.

HARDY, PRES.—Discarded; others better.
HENDERSON, CHAS.—It is a good canna in some localities, but is not satisfactory in our soil, comes too late in the season. It rests all summer and laughs at the other cannas at the last moment. I saw it blooming finely in St. Louis. It bloomed earlier there than with us. I would not want to recommend it for general use.

HUGO, VICTOR.—Discarded.

JUST, MME.—Discarded. The flowers were way below in size.

KANST, STELLA.—Green foliage. Very free flowering. Color an apricot orange. For bedding purposes it is excellent.

LEFEBVRE, ALICE.—Discarded it. No particular merit for bedding purposes.

LEFEBVRE, M.—Discarded; no particular merit.

MARQUANT, PAUL.—We should have it more in cultivation and there ought to be a place for it in any collection. It is an

easy propagator, good bedder, free bloomer.

MESNIER, M.—If well handled it is all right. Worth growing.

MIDWAY.—Good canna. All right for a collection. Is a free bloomer and has large flowers.

MIRABEAU, OCTAVE.—Not up to standard.

NICHOLSON, GEO.—It is a bright lemon colored flower. For general bedding purposes it is a very good canna.

PREMIERES DE NICE.—Is no good. It has little, tiny yellow flowers. Perhaps good for foliage. Dropped it.

PRIMA.—Is a fair canna, but is a weak grower. Flowers are like those of Florence Vaughan. In some localities it might do well.

REVOL-MASSOT.—No merit.

RIVOIRE, MAURICE.—No merit.

SAINT-HILAIRE, GEOFFROY.—No particular merit.

SAMUELS, MRS. J. M.—It is a light red with good broad petals. Flowers very well and I consider it very promising.

SENNHOLZ, GUSTAVE.—The variety introduced under this name was afterward decided to be Paul Marquant.

SISLEY, DOYEN J.—No particular merit.

SOUTH PARK.—A good canna. It is a very free bloomer and stands the sun excellently. The petals are not quite as broad as those of Mme. Crozy. It stands the wind fine.

STAR OF '91.—A good canna but a weak grower, which is the reason it has fallen behind.

STEWART, SECRETARY.—No particular merit.

SUZZONI CAPITAINE P. DE.—Has considerable merit; somewhat similar to Florence Vaughan, worth growing in any collection. Good propagator.

TROCADERO.—Discarded it.

VAUGHAN, FLORENCE.—One of the best yellows in the market. Good propagator; good constitution.

VAUGHAN, J. C.—One of the best dark foliage cannas we have. It stands next to Egandale.

WARSCWICSI.—Has no place except in the center of a bed for tall foliage.

As to cultural details, Mr. Kanst finds that cannas are strong feeders, and that plenty of manure and water are two essentials. In preparing his beds for planting he spreads rich cow manure six inches deep over the surface and spades it in. Last summer he thought some of his plants grew too fast and gave them poorer soil but found he had made a serious mistake.

The roots are lifted in the fall and carried over winter under the staging in the greenhouses, but an even temperature must be maintained. All the flowering varieties are more or less tender and the finer varieties require the most care.

What Constitutes a Good Bedding Canna?

The canna as a bedding plant has come to stay. What is a bedding canna? It is one that presents a pleasing effect at a distance. Bear in mind the last three words, viz., "at a distance." At what time of the day are we most apt to enjoy the effects of a good bed of plants? It is in the early twilight when the master is home from his office, and the good wife through, if she is ever through, with her household cares, and all are gathered on the porch to enjoy those delightful hours of rest that follow a well spent day. That is the time when we breathe in the fresh air and say "Now we will look round and enjoy our garden."

Now comes an important test of a good canna, namely, brilliancy at a distance. Free flowering in habit is the first essential of a canna and decidedly necessary as a starting point, but unless there is a brilliancy in the color of the bloom, its effect is all lost in the distance. However beautiful when viewed near by it is valueless now.

A canna in a greenhouse, seen and examined close by as you would an orchid, may be beautiful in the extreme, but utterly worthless in fulfilling the requirements of a bedding plant. At the risk of being accused of egotism I will mention the canna Egandale to illustrate my point. It is no foundling of mine, therefore I claim no honor for its introduction. Some years ago some unnamed seedlings from Crozy were sent to me to grow for a season and note their qualifications. Each came with a tag bearing a number. Egandale was known as No. 47. They were planted in a group some two hundred and fifty feet from my house. On cloudy days, towards sundown and well into the evening I noticed from my porch that the flowers of No. 47 stood out more prominently and distinctly than any of the others and had a peculiar brilliancy, and as the twilight deepened, the flowers of the others dropped out of view, one by one, until at last as if in borrowed light from the approaching moon Egandale stood alone, still distinct and brilliant.

As a greenhouse canna or for near view I do not like it. It lacks brilliancy when so seen. It exemplifies the saying "distance lends enchantment to the view," but this peculiarity fits it pre-eminently for a bedding canna. There are other requirements I do not touch upon, such as vigorous growth, firm petals, etc., all of which are necessary in the make up of a good canna.



CANNA FLORENCE VAUGHAN.

The introducers of new varieties as a rule see them only in their greenhouse, naturally viewing them near by. Let them take flowering plants of Egandale, Alphonse Bouvier or Flamingo and add their own seedlings and place them at the end of the longest walk in their greenhouses, then go back to the other end and compare the flower heads of the new with those of the standards. Let them also view them towards sundown, and if as brilliant as the trio above named and an improvement in size and color of truss, form of petals and habit of growth, they will have something about which they can spread the printer's ink as thickly as chose and still the public will be satisfied when they grow the plants.

Remember that these remarks apply to the canna as a bedding plant, planted in masses for effect. Many varieties are beautiful in themselves and suitable for putting here and there in shrubby beds, but as a rule a large bed of one kind only is the most pleasing. W. C. EGAN.

Herbaceous Plant Notes.

The prevailing style and habit of both professionals and amateurs in planting herbaceous borders or beds, inherited from our grandfathers, can be improved upon; they were placing the taller growing sorts at the back of the bed and were contented to have everything arranged with as much regularity as possible so as to represent an even and almost unbroken sloping surface toward the walk or front

of the border. We do not advocate this exact and regular planting; it might be in place in carpet bedding, but with flowering plants of such widely dissimilar character as we have to deal with here a different style of planting would be far more effective. Among our taller growing plants we should plant some of medium height, and even in some instances low and dwarf things, still bearing in mind that such plantings must not be made indiscriminately, the time of flowering and color of the different subjects should be taken in consideration. Neither should we introduce one or two plants of medium height intermixed with tall, strong growers, for they surely would be lost entirely among them. From ten to twenty of a kind is far more satisfactory, and if a whole border be planted in such a manner the effect of light and shade, the picturesque outline of the bed with its irregularities in height, together with the diversity in form of foliage, is much more graceful and pleases the eye of every lover of nature better than a stiff and smooth surface. A few very tall bold looking plants with distinct and pleasing habit may be planted singly in order to show their outlines to full advantage, but the surrounding ground should not be left bare; we have such a large variety of useful hardy plants in different heights to select from, some of them not requiring much light or sun, and by planting and covering the surrounding earth with green, much is added to the general effect.



FLORENCE VAUGHAN



ALPHONSE BOUVIER BORDERED WITH MME CROZY

GROUP OF CANNA BEDS.
CANNAS

Moreover by planting in the above style we are enabled to give an aspect of greater diversity in the limited space of an ordinary sized garden, the eye cannot see from one point what is hidden beyond the taller patches of plants until we pass the obstruction, and then an entirely different vista will present itself. Thus we may have interesting combinations and variations of views on a comparatively small place.

My idea of a well arranged border or bed would be to introduce the clumps or patches of the taller plants, springing from among the lower ones, which in their turn should not be crowded together, but allowed space enough to fully develop their character, while the soil beneath them may be covered with a

carpet of creeping or spreading plants of only three or four inches in height. All plants must be so placed as to show the full beauty of each and every flower, or at least allow the eye to penetrate into the shady spots where the delicate foliage of the carpeting, or else some dainty little flowering plant requiring protection from direct sun, may have found a convenient lodging place.

Not only in borders, but also in flower beds of any size or shape we can satisfactorily introduce the hardy plants, and in many instances the introduction of the various kinds of early flowering bulbs among them may be considered an advantage. A very striking and lasting effect may be produced by planting a bed with tulips or hyacinths and *Lilium*

speciosum intermixed with the *Spiraea filipendula* and a few clumps of *platycodon*; the fern-like foliage of the *spiraea* will, after the early bulbs are gone, cover the ground nicely with green, and when their flowering time is over and the old stems are cut to the ground, *L. speciosum* will begin to expand, and while still in bloom the *platycodons* will be out and keep up a succession of flowers. *Scilla amœna*, with its pretty unrivaled blue flowers springing from a ground work of the yellow flowering creeping *Lotus corniculatus*, early in the season may be followed by the blue or white *polemonium*, which in turn is succeeded by some of the *rudbeckia*. *Daphne Cneorum* will cover the ground densely and still allow plenty of space for planting *Aquilegia chrysantha*

and *Delphinium sinensis* between them, followed late in fall by native *Lobelia cardinalis* or by *Helenium autumnale*. A simple and very pretty bed may be arranged by planting *Heuchera sanguinea* rather thickly, relieving the monotony by introducing a few plants of *Hyacinthus candicans*; the bed will remain green all winter. The hardy evergreen candytufts have the same advantage, and may form the groundwork for various things such as *campanula* combined with lilies, or for *epimedium* with their bronzy foliage, *paenias* and tall *delphinium* or *digitalis*. *Alyssum saxatile compactum* is a complete sheet of gold for quite a long time in spring, and its glaucous foliage hides the ground well; interspersed with geums or tall *lychnis* and a few autumnal hardy asters a very attractive bed may be formed.

The subulata section of phloxes may be used for a base in planting a bed of white *Phlox suffruticosa* intermixed with blue *campanulas*, followed by a few plants of pink *Anemone japonica*. Our pretty ever-blooming *Viola cornuta* will make an attractive show under or among the summer and fall blooming *Guillardia grandiflora* or *Coreopsis lanceolata*, which however should have all old flower stems removed as soon as the flowers are faded or else a succession may fail to appear. Endless combinations, equally good or better may be suggested, but enough has been said for this time, as the above was merely written to draw the attention of commercial florists to the fact that there is no need of using always our general bedding plants for the purpose, especially as many of our wealthiest people are getting tired of having their beds planted year after year with little variation in the rather limited selection we could make for them, confining ourselves to the so-called summer bedding plants. The majority of our hardy herbaceous plants are so admirably suited for the purpose and offer such endless combinations in colors and in growth that it is to be hoped they will, to some



J. C. VAUGHAN



J. C. VAUGHAN

CANNAS



MME A BOUVIER.



MME. A. BOUVIER

CANNAS.

extent at least, receive the attention of florists and planters, but if any of them should have his doubts about my remarks, let him try for himself any of the recommended combinations and I am sure, long before autumn sets in, he will be convinced and delighted with the result of his planting.

J. B. KELLER.

Rochester, N. Y.

Cyclamens.

BY E. F. COLLINS.

[Read before the Toronto Gardeners and Florists' Association, February 18.]

The first thing to be considered is to procure good and reliable seed, without which the best grower cannot expect to be successful. Secondly, he must never allow them to receive the slightest check on their journey from the seed pan to maturity. To have good plants in flower during the winter months seed must be sown as early as possible in January, in a compost of equal parts of light loam and leaf soil, with a good sprinkling of sharp sand, and if placed in a warm corner and covered with a piece of glass they will soon germinate, when care must be taken to admit air to them by tilting the glass to one side for a few days, after which it may be removed altogether. As soon as the seedlings are large enough to handle they should be potted into thumb pots, and if kept in a temperature of about 55° or 60°, where they will receive lots of light and given an occasional syringing, they will soon fill the pot with roots, when they will require a shift into 3-inch pots, using a compost as recommended before. Care must be taken as regards watering not to allow the soil to become dry or they will receive a check from which they will never fully recover. On the other hand, they must not be over-watered or the soil will become sour, which would do them as much harm as not having enough, but if they have been carefully potted and well supplied with good drainage, they are not very likely to take any harm from over-watering. So far as my opinion is concerned, I believe that good drainage is one of the most essential things connected with horticulture, although too often we find that during the busy season it is sadly neglected.

If proper care and attention has been given them they ought to be ready about the middle of July for another shift. This time I would recommend a 6-inch pot, which would be large enough for them to flower in, using a compost of three parts loam and one of leaf soil, with a little sharp sand. After being potted they



CHICAGO.



CANNAS.

MRS J. M. SAMUELS

must be kept shaded and well syringed for a few days; also care must be taken not to over-water them, as they will not require much until the roots have taken hold of the new soil.

Where it is possible to do it, I think that if they are kept in the same position on the bench during the growing season it is a great benefit to them, especially if they are doing well. It can often be noticed if a plant or batch of plants have been in the same position in the greenhouse for any length of time and are then shifted to another part of the house and given just the same treatment as before, they commence to go back, or, in other words, get into bad health, and we wonder what is the cause of it.

A little weak liquid manure will be very beneficial to them when the pots get full of strong healthy roots, as it will assist them to throw up the flower bud, yet my advice is not to give them too much

stimulant or it will, in my opinion, be detrimental to their growth the second year. I find it is a great benefit to give them a good syringing two or three times daily during the hot dry months, also give them a freer ventilation. Of course, after the days get cooler a drier atmosphere must be maintained or the foliage will damp off, also a little fire heat must be turned on at night to keep a nice warm dry atmosphere. They must not at any time become crowded, for if there is one plant which will show the bad effect of crowding sooner than another it is a cyclamen. How much better would it be if we could always content ourselves with a few well-grown plants, instead of, as is often the case, trying to grow double the quantity that we have room for or the time to give proper attention and care to.

A few words might here be said as regards their period of rest, as I think that is often the cause of our failing to grow

good plants the second year. It is no use to fling them down into some out-of-the-way corner when they have finished flowering and not bestow any more attention upon them, then to think that we can pick them up and start them into growth just when we please, or as in some cases, put them on the shelf and dry the vitality out of them. My idea is that after they have done flowering and the foliage begins to turn yellow they should be put in a cool house where they will receive lots of light and sun, then to gradually withhold the water from them, it must not be done all at once but step by step, to insure their being well ripened and yet to keep them plump, for if allowed to shrivel they will lose their vitality. They should never be allowed to get dust dry, as I think it often prevents them from starting into free growth again, which they ought to do soon after they lose the last of their foliage.



CHICAGO.

MRS. J. M. SAMUELS.
CANNAS.Fern Notes.
PTERIS.

Though not an extensive genus this is an important one, as it contains some of our best ferns for decoration. At the present time I should think there are more pterises grown for our London markets than all other ferns put together. In visiting the various growers who make ferns a specialty one cannot help wondering what is to become of all the stock, yet they seem to be distributed one way or another.

All the most useful sorts may be raised from spores, and it is surprising that the garden varieties come so true. Varieties would not be so numerous if we did not occasionally get a break, but taking them as a whole very little variation will be found among seedlings. For example *Pteris Wimsetti*, which is one of our latest additions to garden varieties of *P. cretica*; we now have some thousands among which there is scarcely the slightest variation. I also note the same results among large batches of *P. nobilis*, *Mayi*, and the ordinary crested form of *cretica*. The varieties of *serrulata* are rather more inclined to run out, but with care in selecting the best types for saving spores

from they will keep fairly true to character. With all the varieties of ferns it is necessary to select the very best plants for spores, the best fronds should also be selected for special purposes. Most of the pterises produce spores so abundantly that it often occurs they are used too freely when sowing; taking *tremula* as an instance, where they come up spontaneously they grow away freely, while where sown they frequently die off through being over-crowded.

In growing on young stock all those of the *serrulata* and *cretica* type may be potted in patches of several seedlings together, and will make good bushy stuff much quicker than when divided up singly. *Tremula* is perhaps best when grown singly, or at most not more than two or three seedlings together. *Argyrea* grows too tall and thin when done singly, but grown in patches of several plants together they grow bushy and compact. Though this is rather tender it is a general favorite. We often grow this together with other sorts. *P. straminea* is one of the best; a plant of each potted together. When large enough for 5-inch pots they soon make effective material for table and other decorations. *Argyrea* and

serrulata is another good mixture. Of the varieties of *cretica Wimsetti*, referred to above, will undoubtedly become a leading market fern; it differs from all other crested forms in having the pinnae broadened at the base, and cut down into irregular segments, and these are again crested lightly. The ordinary *cretica cristata* is a general favorite. *Nobilis* is a very distinct variety; the fronds stand up well, though heavily crested. *Albolineata* has come into favor lately, and *Mayi*, which is the best crested variety, is a general favorite. Of the plain forms *major*, or *Ovorardi*, is the most popular; in fact it is one of the best ferns for market at the present time.

Of *serrulata* there are some very distinct forms. I find a strong growing form which has not received a distinctive name is much appreciated. A very slender growing variety, *P. s. gracilis*, is very useful in a small state, but it is not suitable for anything larger than a 4-inch pot. The crested varieties of *serrulata* are too numerous to refer to individually, and most growers have a slightly different form of their own. Of *P. tremula* there are several varieties, *foliosa* being the best plain variety; *flaccida*, which

has the terminal pinnae elongated and slightly twisted is a fine fern, but it does not come freely from spores. *P. t. elegans* is a crested form with drooping fronds; when well grown this makes a beautiful plant. In *Smithiana* the fronds are heavily crested but stand erect.

Pteris umbrosa makes a fine plant where larger specimens are required. *Pteris Victoriana* is a very pretty variegated fern, and I thought at one time it would prove a good market variety, but somehow it does not go well. *Reginae* is a better grower and makes a well furnished plant, but does not come true from spores. *Reginae cristata* makes a fine plant, but we do not seem likely to get it in quantity, as it is only by chance we get a seedling. *Pteris bianrita argentea* is another pretty variegated fern; it somewhat resembles *P. argyrea* but is altogether of better substance, and I find it comes quite true from spores. It should therefore find its way into the market soon.

Pteris longifolia, when grown singly, is too thin, but grow three or four together and it is a most useful fern. The variety *Mariesi* is of more slender growth, and the fronds do not grow so erect; it makes a beautiful subject for the rock-fernery. *P. moluccana* is another fine species having long pinnate fronds which are gracefully recurved, the spreading rhizomes are particularly adapted for rock-work, but it is not a suitable fern for pots, or at least not for ordinary decorations.

P. scaberula, a slender growing species, when well done is very pretty, but it requires some care. It should be grown in a good loamy compost and requires plenty of drainage; as the roots are confined to the surface shallow pots should be used. This fern delights in a cool, shady position; when placed in heat it is sure to dwindle away and die.

All the free-growing pterises like a good rich compost, provided good loam and well rotted stable manure is at hand, and some good sharp sand. No peat need be used; one great point is to keep them potted on until they are in the size they are to be sold in, and after that, when the pots are well filled with roots, manure may be used freely, either liquid or any of the compound fertilizers. With fresh potted plants water should be used very sparingly, but after they are well established they will take a good deal of moisture. Some shading is necessary in bright weather, but light and air is quite as essential as it is for flowering plants. Failure among ferns may often be traced to heavy shading and over-watering; besides which, when grown in light and air they make much better fronds and last well when used for decorations.

DAVALLIAS.

Although these have not yet become what may be termed "popular market ferns," yet they are coming to the front, since others which make plants quickly have become so common, it is necessary to look for something fresh for choicer work. As the davallias require some time to establish good plants they are not likely to be grown in such quantities as to over-stock the market, and will consequently always command a fair price. Although all are very interesting, and I do not know of any that should be left out where a good collection of ferns is grown; it is only a limited number that are likely to be of much service for ordinary decorations, and these chiefly belong to the "Haresfoot" section.

The davallias though rather slow in making well furnished plants, are easily



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propagated by means of cutting up the spreading rhizomes. They may also be raised from spores, though they do not come so freely as many other ferns. It is however, worth a little perseverance to raise seedlings, for they make much better plants. Some sorts are much inclined to vary; *Fijiensis* may be mentioned as an example, among a good batch of seedlings I have seen some very distinct forms. It would perhaps be difficult to improve much on the beautiful *D. Fijiensis plumosa*, yet some of the seedling varieties show greater vigor, and make well furnished plants. The old type of the haresfoot, *D. canariensis*, is a fine fern when well grown, the best variety of which is known as *gibberosa*. Of *D. dissecta* there are many variations, *elegans*, *rufa*, and *decora* all closely resemble each other, the last named has the largest fronds. All

have rather slender rhizomes thickly covered with brown scales. *D. Mariesi*, the Japanese variety, which has been imported at various times grown in fantastic shapes to represent boats, anchors, balls, etc., is a very free growing and elegant variety. It is deciduous, but the new fronds start away almost before the old ones have ripened off. *D. bullata* remains dormant much longer, the bright reddish brown rhizomes of this have some attraction even when devoid of fronds.

Of those which have the rhizomes covered with silvery grey scales, *Griffithiana* and *Tyermanni* are the best, the first named has the largest fronds. *D. solida* is another worthy of attention, it has large spreading fronds of a thick leathery texture, and makes a fine plant for hanging baskets. *D. ornata* closely resembles *solida*, *D. Mooreana* or *pallida*, as it is



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now called by some, makes a grand specimen; it is also a fine fern in a smaller state. I have raised this from spores, but have had many failures. Plants propagated from divisions make rather too large fronds to be useful for small pots, unless kept frequently divided before they get too vigorous. All of those referred to above make useful plants for decoration, and are equally suitable for the rock fernery. Grown in wooden or wire baskets they are very effective, and as pot plants they have few rivals; the smaller growing sorts may be particularly recommended for edging large groups of choice plants.

Culture: Mooreana succeeds best in a stove temperature, but all of the others will succeed well in an intermediate house. They should be grown in rough, open, porous soil, peat, leaf mould, and fibrous loam, with which may be mixed some broken pots, charcoal and sand. When grown in baskets, the baskets should be lined with sphagnum moss. I find all the *davallias* require more shade than many ferns, they also delight in a moist atmosphere, but after the fronds are well matured they stand well when used for decorations. A. H.

Trouble With Petunias.

Can you tell me why my double petunias turn yellow and lose their lower leaves? They have been given every attention. Can it be the soil? They used to grow all right in the clayey loams of further south, but here, get what mixture

one will, they will not do well. They have never been allowed to become dry or pot bound, yet the trouble is always there, and I have sometimes thought it might be a disease and threw out the whole lot last summer, but the new stock acts just the same. Ed.

Many of our finer petunias, both double and single, are sadly lacking in constitution, especially the double pinks and pure whites, and disease is very common among them. The leaves are curled, pale, marked with brown spots (fungus), which eventually destroy the leaf and even attack the stem.

I infer that your correspondent's plants were propagated last fall. It is no easy matter to winter such plants in good condition. During the dark days of mid-winter the growth is slow and feeble, the wood becomes hard and the leaves on the hard wood die of starvation. With the increasing sunlight of the last half of February the plants begin to feel the impulse of returning spring, and a stronger growth takes place. If cuttings are taken at this time and rooted quickly, fine clean plants can be obtained for spring sales.

Our best petunias are grown in rather a light soil. In wintering the plants they require a light airy place, care being taken to keep the soil moistened; but never "soggy." A shelf near the glass suits them admirably. We seldom attempt to carry over the plants, except it is an exceedingly choice variety that we wish to use in seed raising, as we get bet-

ter plants from seed, and the percentage of good ones is high.

If your correspondent will send samples we will be better able to judge of his trouble, and can then tell if his plants are diseased. J. F. C.

Buffalo, March 2, 1896.

Horticulture In Switzerland.

In Switzerland the federal government subsidizes two horticulture schools, one at Waedenschweil, in the Canton of Zurich, and one here at Geneva. The latter I visited the other day at Chatelaine, one of the suburbs of the city, and found it to be a most creditable institution where the same attention is given to the study of this science that appertains to medicine, engineering, etc. The buildings and grounds are well adapted to the purpose, and an excellent corps of instructors is in charge. The school, properly speaking, is a cantonal institution, and was established 1887. The terms of admission are similar to those of other cantonal educational institutions. Of the forty-two pupils attending during the past year sixteen only were Genevese, nineteen were Swiss of other cantons and seven from abroad, including one Russian, one Egyptian and one Bulgarian.

The course of study comprises three years, embracing during the first year one term of twenty-one lessons on botany and vegetable physiology, two terms of forty-two lessons on fruit and ornamental tree culture; two terms of forty-two

lessons on the culture of vegetables; two terms of forty-two lessons on floriculture; one term of twenty-one lessons on physics and meteorology; one term of twenty-one lessons on chemistry in general applicable to horticulture; two terms of forty-two lessons on geometry and surveying; three terms of thirty-one lessons on accounts; one term of sixteen lessons on horticultural zoology and two terms of forty-two lessons in drawing. During the year the pupils are divided into two sections which alternate with each other in mental studies and their practical illustration and application upon the grounds of the institution.

The second year's course of study is of a similar but more advanced character and includes also special courses of lessons upon the culture of the grape, bee culture and forestry.

The third year is given largely to floriculture forcing, vegetable pathology, seeds, horticultural architecture, reviews and practical tests. The detailed program of studies embraces seventeen closely printed octavo pages.

The Horticultural Society of Geneva and its organ the *Revue Horticole de la Suisse Romande*, whose editor is director of the institution, are among the firmest supporters of the school. Its graduates are always in demand and on the whole at their examinations attain high percentages in their studies. J. H.

The Retail Trade.

In a recent conversation with Mr. W. J. Smyth, a prominent south side retail florist of Chicago, he gave the following regarding his experience as to flowers that are in the best demand, style of decorations most usually called for, etc.:

As to the keeping qualities of the different carnations Lizzie McGowan is about the best white carnation we have, although a little weak in the stem, but if it is not cut too soon or left too long on the plants, it lasts well. They can then be kept three or four days in a dwelling house. McGowan is about the only white I handle because the others are not good; for instance Hinze's White is about gone. We have handled Silver Spray. When it is good it is very good but we have but a few. Tidal Wave when grown disbudded and with perfect flowers takes well and does so on account of it not being a scarlet or a pink; in other words, the color seems to take. What we need is a good scarlet. I think the color of the new Jubilee is all right. Portia is too small and Garfield is no good. I find Century a very good carnation. It has a good stiff stem and a good strong growth. I am not particularly partial to the color, but when there is no better what are you going to do? I find Daybreak when it is grown good and cold a very good carnation, but we need something a little deeper in the pinks. I consider Scott so far the best pink we have and it takes well. Have not tried Rose Queen. At the recent carnation exhibit at the club the pink that most impressed me was Della Fox.

In roses the call this winter has been for Mme. Testout. I find it to be one of the best roses to sell to people who want something that is not used on every table. The demand has been for a pink rose and we could not get enough of Bridesmaid. On several occasions we have used orchids this winter and with great success and satisfaction. The people are perfectly willing to pay what they are worth. Of course it is a question of a greater cost if you use as many as you would like to use,



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but it is very easy to arrange the matter of expense by not using so many of them. For instance, in a basket, use twelve or fifteen orchids and a great many adiantums. A similar basket of Bridesmaid would cost about the same and of the two they prefer the orchids.

Concerning reception work, this winter in arranging tables we have used tall vases with from eight to ten dozen Bridesmaid as a centerpiece. We use the Brides for an occasional wedding or dinner. The pink rose is the rose this winter. We have more call for that than anything else. As far as reception work is concerned, in regard to the table, we use a large vase and then about three small vases with from two to five roses in each one. For instance, if we had three vases, in one vase we would put about five, in one vase about three and in another about two. Then in the dining room, aside from that, about three dozen roses on the sideboard and with a palm or two about the room. They usually have musicians, so we make a screen of palms in the hall to hide them and then an occasional group about the rooms, and also something small in the way of Papa Gontiers or carnations for

the dressing rooms up stairs. There is very little decoration overhead and very little banking of mantels.

As to dinners, our work has been mostly in flat pieces, high enough to allow the guests to look across the table, making the bouquet very loose. We use very little green with the flowers aside from their own foliage. The ladies are not giving favors to their guests as they used to, and the tendency is to do away with the custom of putting a flower to each plate. Flowers are selected according to their season. For instance, in chrysanthemum time very little except chrysanthemums are used and after that very little besides carnations and roses. Now, as we are coming into the bulb season, nothing but the choicest kinds of carnations and roses can be sold. The people are getting tired of carnations and roses and are going in for tulips, freesias, daffodils, etc. Great quantities of violets have been used this winter. The demand is great for Harrisii and it brings good figures. It is used considerably for center of reception tables. Asparagus has been used a little; it is a delicate green and has to be used very carefully; an occasional string over a



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mirror or sideboard, something on that order. Heavy decorations are not used.

We do not make up anything any more unless in the case of funeral work. The better class of people are going in more for flat bunches of solid color. If white flowers are used they are generally tied with royal purple ribbon. Violets are very much in vogue for funeral work. A bouquet of orchids and valley tied with white ribbon is very handsome.

We do not make up any bouquets to carry any more. Ladies are putting a rose or two in their hair for theatre parties. When bunches are made up they are made of individual flowers of one color harmonizing with their dress. Lily of the valley does not sell very well. We have not had a great deal of it yet.

I think, in speaking of people outside of the city, it is a very good plan for them not to use perfectly fresh roses cut from the plants. I think it is well for the flowers to be cut at least forty-eight hours and put in an icebox or cellar (whatever their method may be for keeping them) and opened up in this way rather than be wholly developed while on the plants. A freshly cut flower put in a warm room is worse than a stale one. I have made it an aim in almost all my work not to send out freshly cut flowers. For instance, yesterday's stock I use today, and sometimes it is as much as two

days old. Then it is in its height. What is wanted by the people is effect of the flowers for that day and not for the next. Great care should be taken in arranging flowers. Each flower should show off for its own value, and care should be taken in not letting the flowers touch each other. In placing them let one be above the other. I claim that you cannot make a bunch of roses or put flowers together too carelessly; that is, combined with a little art.

There is a big call for violets. We paid more for violets this year than we ever did before. The margin is very small on violets. Another thing that I have always stuck to: In regard to putting flowers away get a proper vase for the proper amount of flowers. Don't put your stuff away in trays; put in water.

As far as baskets are concerned we don't sell a basket once a month.

We have had a very great demand for mixed ferns. We take these little shallow tins and put a cocos in the center mixed with a few ferns. We do not use adiantum as it does not last. The pan should be eight, ten or twelve inches. In the case of an eight-inch fern pan, where we use cocos, the price would be \$1; ten-inch \$1.50, and twelve-inch \$2. It pays about double what the material costs. If a party takes good care of them they should last six weeks, but most of

our customers order them once a month. They are placed in the center of the table.

Primroses or hyacinths do not sell well. Palms sell all the time. The demand is for those that sell at from \$2.50 to \$25; kentias sell the best. I would not recommend anything but kentias; either Belmoreana or Forsteriana. Arecas go to pieces.

I think my best success has come from the fact of not pushing my own ideas. Get your customer's ideas and combine them with your own. A florist makes a great mistake when he goes into a house and knows it all. The florist wants to be very accurate in receiving an order. When you go to take an order write down everything that is said to you. Customers do not say, "I am going to have a reception, go in and see what you can do," though of course it is often left partly to the florist. For instance, a lady says, "I want a nice vase here and one there. You know what you are going to have in your store, so get me up something nice and rich." Another point is, if a lady wants her order at a specified time let it be there punctually. However, if a lady has a reception from 3 to 5 and wants her flowers at 9 o'clock in the morning it is to the florist's advantage to talk her out of it. The flowers would be wilted by the time she wants them to look their best. I always try to arrange to get to

the house two hours before the reception in order to allow myself an hour and a half; same way with a dinner. Get the flowers there as late as you can and get the flowers on the table as late as you can without interfering with any of their plans.

Following up a similar line of inquiries with Mr. E. Wienhoeber, the leading Chicago florist on the north side, we noted the following:

Lizzie McGowan is the only white carnation I have handled this winter. Silver Spray cannot be grown well. Daybreak is the best keeper among the pinks. Tidal Wave is in less demand, though I see no particular reason for it. I do not handle very many Portia, as it sells poorly on account of stem being weak. I think that Scott is the best seller. For day work we prefer Daybreak, but for evening work we prefer the color of Scott. Daybreak is too light at night. Rose Queen is a good carnation and takes well.

Roses: The greatest call is for Bridesmaid. We sell 150 Bridesmaid to fifty Beauties. Meteor also takes well. The call for roses this year, in proportion to the call for carnations, seems to be an increase over what it has been before, the tendency prior to this having been in favor of carnations. There is an increased demand for orchids; the average price is \$10 a dozen for cattleyas. The demand for violets is still increasing.

For reception work our customers want loose flowers; sometimes we arrange them, sometimes our customers do. The general call is for flat baskets for reception tables. There has been a great call for white dinners this year; that is, decorations in white and green. Sometimes I have orders for mixed flowers, all colors, all kinds. But the demand is at least one-third for white flowers. For green we use adiantum. We use the adiantum plant bedded in moss. My plant trade has not been so great this year. There is not very much banking of mantels except in large houses. In large houses we depend more upon plants for the decoration. In a white dinner violets are used for favors, also lily of the valley.

For a recent dinner laid for eighteen plates, I used maiden hair ferns with cyclamens in a large silver bowl, and the



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CANNA M. MESNIER



MIDWAY.

effect was very pleasing. The cyclamens were put in among the ferns. *Harrisii* are very scarce and the demand is very good. There is an increase in demand over last year. I do not find an increase in demand for asparagus for use as green.

Glazing.

What is the best method of glazing a greenhouse roof? I have hard pine sash bars, butted glass, using Gasser's zinc joints. The difficulty I have encountered is in making putty or paint stick to my sash bars, and consequently I have leaky roofs. If I put on new roof—using cypress sash bars, with cap instead of putty, butt the glass, using zinc joint as before, shall I make any mistake? Can anyone suggest a better plan? Has a cypress sash-bar any inclination to spring or twist?

B. F. S.

Massachusetts.

Your correspondent B. F. S., who asks for information on this subject, says that his sash bars are made of hard pine—by that I presume he means yellow pine with a lot of pitch in it. If that is so it is very hard to get any material, either paint or putty, to adhere to it, as the pitch will keep working out in hot weather and forcing any covering off that may be applied to the wood. With such kind of bars and butted glass the best way to secure the glass would be with a cap piece screwed down on the mid-ribs of the sash bar. This of course requires at least five-eighths of an inch of wood between the glass. The cap strip should be made to fit fairly snug on this, and the sides should be rabbeted deep enough to allow it to fit down on the glass fairly snug. Then make the bottom light secure, so that it cannot get away from its place, matching all the other glass so that the edges come close together and all the bends one way, so that the edges all match as closely as possible, starting at the bottom and finishing at the top. Take the cap strip and screw it down on the mid-rib, using round head screws galvanized if to be had; the cap strip should be painted before using both inside and out. This plan does away with all putty, glazing points, etc., etc., except for the one bottom light in each row. Should a light of glass get broken at any time loosen the screws slightly on each side of



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it, taking the broken pieces out and slide the other glass down and put the new one in at top, screw the cap down again as before and the repairs are completed. The number of screws required in each cap will somewhat depend upon the size and strength of the cap. For an ordinary cap piece such as is sometimes illustrated in the advertising columns of this paper they can be placed about four feet apart. Be careful to bore the holes for the screws with a bit slightly smaller than the size of the screws. When complete give the whole a good coat of paint and you have a roof as light as is practical with butted glass and hard pine rafters.

Cypress is much better than yellow pine, but it will warp and twist somewhat out of shape if left loose for any length of time. In handling these it is much the best to give them a coat of paint immediately when they are received from the mill. Lay them down evenly as they are painted, with laths between each layer and a little space between each rafter to allow them to get thoroughly dry before using. When all is ready to put them in position on the roof they should be fitted and nailed fast as they are placed, and as soon after as practical glazed and held in proper position. Once there it will be no trouble to hold them straight. In glazing these if butted glass is to be used as above care should be used in making the specifications that the mid-rib should be not less than five-eighths of an inch wide and half an inch deep rabbet with the same one fourth of an inch wide slightly deeper on the side next the mid-rib, this works out from 1 1/4-inch plank and the cap strip should be the same width, to match it when screwed down.

Whether this system of glazing has superior merits or advantages over the lap system is a question which the advocates of the two systems cannot yet definitely settle for themselves, each having its particular merits and defects as almost all matters appertaining to greenhouse building has. If your correspondent wishes to glaze his roofs by the lap system then he will want to use the best putty to be obtained, adding to it one-tenth part of white lead, thoroughly worked through it. Use the best zinc triangle or brad points, whichever may be preferred and do not make the laps over a quarter inch wide. Bed the glass with the level all one way, so that the laps lay as closely together as possible.



MRS. F. L. AMES.



MRS. F. L. AMES.

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After glazing paint the whole inside and out with good quality paint and a good tight roof will be the result. To keep it so it should be painted two coats outside and one in at least every third year, covering every particle of wood and putty. The same rule holds good for every class of greenhouse structure. JOHN N. MAY.



Soil for Roses.

Replying to the questions contained in the letter of C. A. M., Knoxville, Tenn., in regard to proper soil for roses, mixing of same, etc., I would say that his idea about making compost heap is very good, but if he wants to use the soil in his benches right away the manure used should be fairly well rotted; the proportion suggested of one to two would be too strong for most soils, a safer plan to adopt would be one part manure to three or four parts turf. The proposition he makes to soak the compost heap thoroughly several times with water is not a good one by any means, to do so would make it unfit for use for a long time; at this season of the year our ingenuity is taxed to keep the compost heap dry enough for immediate use. The only way to get it in good condition is to turn it over and chop the sod as fine as possible, this accomplished it may be used at any time.

I would not advise you to try the experiment of killing the weeds and insects in the soil by closing the ventilators, turning on steam and trying to cook things, such a temperature as that suggested (210°) would be very hard on the paint in the house, and the chances are it would fail to do that which you expected. If the houses are detached they can easily be cleansed of all insects by fumigating with sulphur, but the fumes are death to all vegetable life, hence the need of care. Fresh cow manure may be used in making compost heap, but it should lay for at least two months and have one or two turnings before being used—manure that has laid on a heap for some time is preferable.

Bone meal may be mixed with the soil at any time as may be most convenient, I



OCTAVE MIRABEAU:
CANNAS.

always sprinkle it on the soil after it is in the benches and carefully mix it in, being certain then as to the amount that is used and also of its equal distribution. If the bone is free from acid or adulteration of any kind it is safe to use from 150 to 200 pounds to a one hundred foot house of the regulation width.

As to the question, "should sand, soot, old mortar, coal ashes air slacked lime or charcoal be used in the soil, and if so in what proportion," I would say that soot is a very good fertilizer, but should prefer to use it as a top dressing through the season, as the plants may show signs of needing it, sand would be useless

unless the soil is of a very strong clayey nature; old mortar having in it a good deal of lime may if broken very fine be good, but wouldn't go to any trouble to procure it; coal ashes are not desirable. Air slacked lime would prove a valuable addition to a great many kinds of soil, possibly to yours; it can be used at the rate of from 2 to 3 barrels to a 100 foot house; charcoal I have never used, and would not suppose that the benefit resulting from its use would be commensurate with the expense and trouble incurred.

As to the samples of soil received, would say that I can only express an opinion, if I was an expert in chemistry and could give the analysis of each, I might then speak with some positiveness. No. 1, should prove to be a good rose soil, (apparently); No. 2, might grow ferns or palms, couldn't recommend it however; No. 3, very peculiar, don't think it is good for anything, might try it however, as an experiment. No. 4, should be fair carnation soil. I understand from the letter that this soil is all from the woods, and on this account would advise you to use none of it, but to go out into a pasture that has been grazed with cattle for several years, sod of this kind, if of good quality, will surely grow good roses, but soil from under or in close proximity to large trees is of little value.

ROBT. SIMPSON.

Grafting Roses.

Seeing an article on the grafting of roses in a recent issue of the FLORIST it has occurred to me that there are many florists who have blank or naked walls in their houses which could be turned to good account by having a few strong plants of grafted roses on hand to cover them. Having them in good sized pots or boxes they could be moved in or out at pleasure.

My ideal of a stock for grafting is the White Banksia, or Lady Banks. A strong growing evergreen climbing variety, a species with all its native vigor. Small plants set outdoors in May will make strong vigorous plants by fall; our hot



CANNA GENERAL DODDS.

summers just suit them. Lift them in fall with all the leaves on them; after shortening and trimming them a little, shade and sprinkle for a week or two, when they quickly recover and soon become established in pots. Keep them till February in ordinary greenhouse temperature. Move them then into a little higher

temperature for a couple of weeks and prepare to graft. In grafting head down the plant to one and one-half inches from top of pot, take a sharp knife and split stock evenly and cleanly for one-half to three-quarters of an inch. Select a moderately ripened shoot, about the same as you would use for cuttings. Cut

off lower leaf, also base of cutting about one-half an inch from end. Take knife and open split in stock and slip in wedge end of cutting, put it down as far as wanted, a little more to the outside of stock than inside, tie with soft cotton cord and then bind on lightly a small handful of damp moss. Cover the top o



BED OF CROTONS AT GIRARD COLLEGE, PHILADELPHIA.

pot with damp moss and take a wide mouthed fruit jar and carefully set over graft. Now take three cane stakes and put around the jar triangularly and tie them to keep jar from moving. Leave jars over grats a week or two weeks if in a cool house; shade occasionally if sun is too hot; at the end of that time remove jars, take off moss and if strings are cutting in untie and tie again. Set jars over them again and leave a little air on at bottom; they will very soon unite, but be a little careful and not expose them too soon. The fact of their beginning to grow is the best test of success. When grafts have grown an inch or two and will bear exposure without distress take large pots or boxes that will hold one-half bushel or more and drain them well with large crocks, broken bones, etc.; then take sods fresh prepared for bottom of boxes and break up in pieces three or four inches square and build up till full enough to take plant, use some finer soil with a mixture one-third each coarse sand and well-rotted manure or coarse bone meal with sod, set plant in center with a good strong stake for protection; set away in a nice airy place, syringe often and water well when needed, and the growth will astonish you. I have often had them make twelve and fifteen feet the same season; such plants will make grand specimens for blooming the following Easter when handled right; \$5 would be a low price for such plants in full bloom, and they would bring it readily. Marechal Niel and Gloire de Dijon and a number of the newer noisette roses would be well adapted to growing in this way. Points of shoots can be pinched early in summer and several canes carried up if needed.

F. A. BALLER.

Crotons.

These plants have attracted more general attention during the past five years than ever before, just because they have asserted themselves by their own intrinsic worth to plant lovers at large; and it may not be amiss to give a few ideas as to how they may be used to advantage more generally in these days of progressive horticulture.

The Girard College grounds in Philadelphia have for a number of years been in the forefront in using to the very best advantage these tropical plants for outdoor decoration, and it is due to Mr. George Huster, the manager of the horticultural department here, to state that so far as is known he was the first to use them for outdoor decoration in summer in this country. When Mr. Huster first proposed to give them a trial he was advised by an eminent gardener to plant them in a shady place. It so happened that Mr. Huster planted some in a shaded position, some where it was partially shaded, and others in the full sun; and the latter made by far the best display before the end of the season. Mr. Huster stated that it is his firm belief that where coleus can be used successfully for outdoor decoration in summer time, the croton may with confidence be used for the same purpose. It is not safe to plant them out before the first week in June in the vicinity of Philadelphia, and not even then if the weather is not settled, that is to say, not until the nights as well as days are warm.

Many have failed with crotons because they have not taken proper precautions in the preparation of the plants. The hardening process before planting is one of very great importance, which is done by judicious ventilation of the greenhouse

in which the plants are growing, during the month previous to planting out. At every favorable opportunity air should be given, night and day, when the nights are not too cool. Crotons are much less sensitive to the chilly nights in the fall outdoor than are coleus. Mr. Huster admits that they are more or less subject to the scale insect, and that some varieties are more susceptible than others to the insidious attacks of this bane to many forms of plant life; but by a weekly application of tobacco water applied with a fine spray it may not only be kept in check, but entirely annihilated. If perchance, however, a plant becomes too badly afflicted, it is cheaper by far to destroy the plant entirely by burning.

Old plants may of course be used for bedding, but Mr. Huster raises a new batch of plants every year. He takes cuttings of good size from healthy plants in December, putting them directly into pots and in a close, moist temperature of from 75° to 80°. When well-rooted, a night temperature of 70° is high enough. Plants raised annually in the way above indicated make very beautiful beds, arranged and graded with the large sizes from the center down to the outer edge of the bed. A *Pandanus Veitchii* plunged in the pot was in all cases used by Mr. Huster as a center-piece; these of course had to have a good soaking with water every bright day. As a rule, Mr. Huster has so thoroughly systematized this branch of the decorations in the grounds that he used two kinds only in a bed, the one variety forming the bed proper and the other (of distinct coloring and markings or form, or both) was used as an edging. Thus a bed of *Queen Victoria* was edged with *Aurea Maculata*, the gorgeous *Day*

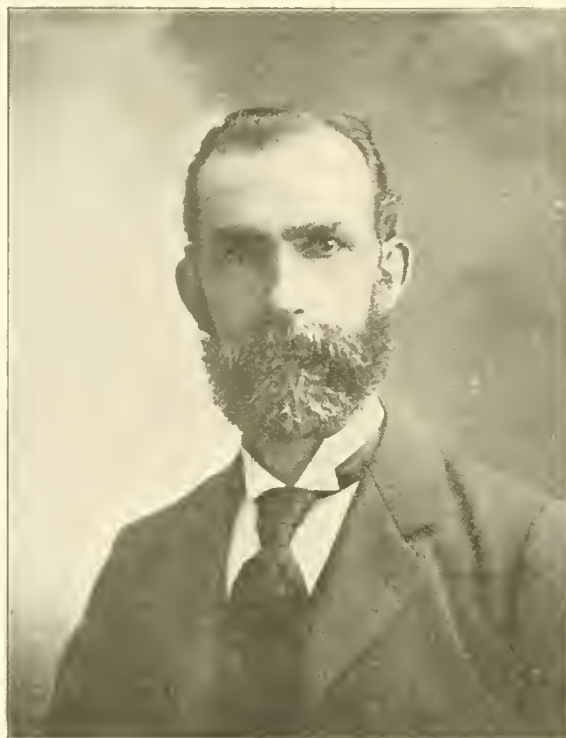
Spring was also edged with the Aurea Maculata, Baron Rothschild was edged with Irregulare, and Fasciatus with Newmanni. I also noticed some plants of Evansianum, which is another variety that may with confidence be recommended for bedding purposes hereabouts. There may be other varieties out of the long list catalogued that are suitable for bedding, which may only be determined by experiment, and it will no doubt be discovered by the same process and observation that in different parts of the country some varieties will be more successful than others. The results, if anything like what has been accomplished at the Girard College grounds and in Fairmount Park, will fully compensate for all the time and trouble taken to determine how far success may be attained with this most varied and distinctly beautiful class of plants for outdoor adornment.

Mr. Robert Craig, who has been making crotons one of his specialties for the past few years, has this to say about them:

"Our mode of propagating the croton is as follows: Put the unrooted cuttings in very light sandy soil, in 2-inch pots; and plunge in steady bottom heat of 90° and a top temperature of from 70° to 75°. They will be rooted in about three weeks, and should then be plunged in cocoa fibre or other light material, keeping the pots an inch apart on a table in the same top temperature but without the strong bottom heat. The advantage of plunging them is that the pots can be kept an inch apart without danger of tumbling over and the plants will then grow stocky. The advantage of rooting them in small pots is that they retain their bottom foliage better than when rooted in the cutting bed and then transferred to pots. Crotons furnish a range of brilliant coloring not found in any other class of plants, and are admirably adapted for bedding in the sunniest position. Exposure to the sun and air in summer time develops the bright colors. It is necessary, however, that they should be frequently syringed, which keeps down red spider and induces a healthy growth.

"Crotons are also well adapted for jardiniere plants and also for mantel decoration. The brilliant coloring produces an effect not obtainable in any other species. There is a great difference between a well grown croton plant, clothed with foliage to the very bottom, and one carelessly grown with more or less of the foliage absent. Whether crotons can be recommended as durable house plants or not can only be determined by an expert, but if kept in a temperature of 70° they will last at least a month or two; and produce as fine an effect as many kinds of cut flowers. As a jardiniere plant in a room nothing can be more beautiful, especially if the jardiniere is selected with a view to harmonious contrast. They can be grown in any good rose soil, well enriched with manure. The addition of a little bone dust seems to give a firmness to the stems and foliage.

"Among the very finest varieties are Czar Alexander II, Reedii, Thompsonii, Pictum, Etna, Charmer, Bergmanii, Day Spring, Sunbeam, Sunshine, Mortii, Lord Derby, Hawkerii, Massangeana, Alba Lineata, Lady Zetland, Gloriosum, Barryii, Mosaica, and Aneitensis; the latter variety is a compact grower with beautiful yellow foliage; one of the best for jardiniere. Of the older sorts which compare favorably with the newer varieties may be mentioned Queen Victoria, Andreanum, Baron Rothschild, Evansianum and Disraeli. The above are all



WILLIAM FALCONER.

SUPERINTENDENT SCHENLEY PARK, PITTSBURG.

showy broad foliaged varieties. Of the pendulous sorts may be mentioned Cronstadtii, which is one of the very finest, being of graceful drooping habit, with bright red, yellow and green foliage. Angustifolia is a variety with a very narrow leaf, it is exceedingly graceful, making a beautiful table plant, which may also be said of Superbus, Laciniatus, Mrs. Dorman, Chelsonii and Senitziana. The essential factor in growing crotons is a continual high temperature (not less than a night temperature of 70°) and regular syringing at least once every fine day.

EDWIN LONSDALE.

Our Parks.

In the dissemination among the people of a love for the beautiful in nature there is no greater factor than our public parks, and it is of the very first importance that they be in charge of men competent to give them the greatest possible educational value.

Unfortunately, in many cities political considerations have influenced the selection of park superintendents, and the result has always been disastrous to the best interests of the people and of horticulture. In view of this fact it is peculiarly gratifying and encouraging to see placed in charge of two of the leading parks of the country such thoroughly able men as William Falconer and J. A. Pettigrew, whose portraits we present in this issue. All honor to the men in power who made these wise appointments and who have thereby encouraged us to believe that real merit still carries weight in the selection of men to fill public positions.

While Mr. Falconer needs no introduction to the readers of the FLORIST, as one of the very best informed men on horticultural subjects in America, this is the first appearance of his portrait in an American horticultural paper, and we are sure the thousands who have known him by his

always instructive and helpful articles in the horticultural press will be much pleased with this opportunity to look upon his face.

Mr. Falconer was born in Scotland November 2, 1850. He began life as a gardener, serving a regular apprenticeship, and after being connected with some of the leading gardens in Scotland and England he went to the Royal Botanic Garden at Kew, London, and graduated from there in February, 1872. He then joined the editorial staff of the *London Garden*, and was its associate editor in 1874, when he resigned his position and came to America. Here he was first engaged by F. L. Ames at North Easton, Mass., and later he engaged in the nursery business in Texas.

In February, 1876, at the repeated urging of Prof. C. S. Sargent, he came north to accept the position of superintendent of the Botanical Garden at Harvard University. Shortly before this date the late Prof. Asa Grey had resigned from the directorship of this garden, and Prof. Sargent had been appointed as his successor. The latter had met Mr. Falconer in England some years previous, and knowing of his familiarity with such work as he would be called upon to do at Cambridge, was very desirous of securing his services, especially as he intended to remodel and modernize the garden. This work Mr. Falconer undertook and fully completed, so that in 1879 the garden contained 5,901 species of plants, representing 1,519 genera. Of these 3,641 were hardy and 2,260 species were tender. This was exclusive of grasses, sedges and other endogens. Mr. Falconer remained at Cambridge until August 31, 1883, when he came to Doris to look after the interests of Mr. Dana's great garden, which has been increasing in beauty ever since.

At Doris the prevailing idea was to get together as complete a collection of



J. A. PETTIGREW.

SUPERINTENDENT OF PARKS, BROOKLYN, N. Y.

plant life as possible, and every department of horticulture is represented on its 50 acres. Further, every specimen has been brought to the very highest state of development and its influence in the advancement of American horticulture has been marked.

In 1892 Mr. Falconer became the editor of *GARDENING*, established that year, though still retaining his position at *Dosoris*, and he has made his paper the most practical and helpful one ever published for the benefit of those who garden for pleasure, while professionals have also found it of the greatest interest.

Now he has been appointed superintendent of Schenley Park, Pittsburgh, where with the great natural advantages of the park, and the liberal spirit of its promoters, he will have opportunity to exert an even wider influence for good than before, and knowing him as we do we can assure the people of Pittsburgh and the horticulturists of America that he will improve his opportunities to the utmost.

John A. Pettigrew was born in England about 50 years ago. He is the son of a gardener and began his own experience in gardening when 10 years of age. At the age of 22 he came to Chicago and for 13 years following he was engaged in the various branches of horticulture, mainly floriculture and landscape work. He then entered the stone business and contracting, which he followed for a number of years, but returned to his first love again and was soon after appointed superintendent of Lincoln Park, in which position he made a most enviable record.

His varied experience in all the various branches of horticulture, coupled with a sincere affection for every tree and plant in his charge, his splendid administrative ability, together with his knowledge of landscape architecture as well as gardening, made a rare combination and enabled him to meet with brilliant success every one of the problems that continually

present themselves in such a garden as Lincoln Park. Withal he is a gentleman with all that the name implies, a botanist of ability and a close student of all that affects the profession he loves.

In 1894, through his failure to execute the wishes of a disreputable gang of politicians who had influence with the governor his resignation was demanded and received over the protests of every daily paper in Chicago, regardless of party affiliations, and despite remonstrance from all representative citizens. He then accepted an appointment as superintendent of the parks of Milwaukee, Wis., until called to the more responsible position of general superintendent of the parks of Brooklyn, N. Y., where he now is, and where he will surely do much to advance the interests of the "art that doth mend nature."



Carnation Rust.

Under the above heading in your issue of March 7 your correspondent "B." quotes the words of a grower on this matter and asks for more light. I recognize the words used and claim authorship to them, and would like a little space to enlarge on the subject. I speak after three years' experience with the rust, previous to which time I regarded the disease as a mortal enemy to the carnation and did all I could to prevent its introduction on my place. I sought nothing for fear of it and used copper compounds at short intervals as a preventive. But in spite of all precautions the rust came.

It first made its appearance in the field in the fall just before housing the plants and increased considerably in the houses. However, they were not bad and I resorted to the usual tactics recommended, picking off affected leaves, burning the plants that were bad, together with all inoculated material. We soon found that where the carnations were in a thrifty, growing condition the rust ceased to spread, and by spring there was little to be seen. We have started every year with perfectly clean plants, only to have the same experience repeated in the fall. I have ceased to regard it with any apprehension and have stopped burning plants and taking valuable time in picking off rusty leaves. I now look upon this latter course as a pretty sure means of increasing the evil, if evil it is. I also believe that the very means taken to eradicate the disease have done more harm to the plants in many cases than the rust itself. I repeat most decidedly that the matter has been exaggerated and dwelt upon out of all proportion to its importance.

Of course I admit it is not desirable to have on the premises, but it is not so bad as spot, bacterial disease, or even red spider; in fact it is the least to be dreaded of any of the diseases of the carnation. I am sorry to have to differ with Mr. Dorner, but this is simply an honest difference of opinion. I have a friend who compares rust on carnations to warts on the hand. Warts are not desirable, but I never heard of one cutting off the hand to get rid of them. Some cut them out with a knife, some use chemicals and some use incantations—the latter method is just as good as any, but most people let them alone. Now, rust, like warts, is only skin deep, and is not a constitutional disease. I have always had my doubts about the stated remedies being of any use in checking or eradicating the disease. I have used them faithfully, but have no proof they did any good whatever. On the contrary, there appears to be abundance of proof that the disease will appear and disappear (just like warts) in spite of so-called cures. When at Chas. H. Allen's place on Long Island we were shown two or three plants which he said were literally covered with rust when planted in the bench last fall. At the time of our visit search revealed one or two rust spots, but the plants were practically clear. No fungicide had been applied to them, they were simply syringed almost daily, and this seemed to be Mr. Allen's remedy for rust, although diametrically opposed to general opinion.

Mr. Dorner seems to have implicit faith in the copper compounds as a preventive. Several growers in this neighborhood are entirely free of rust and have never used anything whatever. Whether preventives are used or not I am inclined to look upon such cases as simply a matter of luck. I know of one place formerly badly affected with rust now entirely clear, the parties using Bordeaux mixture, etc., apparently proving the efficiency of such compounds. In another case the rust entirely disappeared without using anything at all. As Prof. F. C. Stewart told us at New York, the experiments have not been made under best conditions. "Those who tried the fungicides were so anxious to eradicate the disease * * * they did not take the precaution to leave a few untreated plants with which they might compare their treated plants in order to determine whether treatment was beneficial or otherwise. If the disease disappears under treatment such disappearance may be due to the treatment, or it may be due to something else."

I am not advocating the dissemination of diseases, far from it. Let us grow our plants in the best manner we know how and as free from all disease as possible. But I don't see why the vigilance of the buyer of cuttings should be confined to rust. I would rather have rust ten times over than cuttings affected with spot, or anthracnose, or a half dozen other things.

I am trying to treat this subject in a practical manner. The scientific side of the question is another matter. No one appreciates the labor of the savant more than I. But the laboratory is in one place and the commercial greenhouse another. The same methods that grew healthy plants a hundred years ago will grow them to-day. If one-half the attention and energy expended in fighting rust was exerted in the direction of growing the carnation under proper conditions and with the best care and judgment we would not hear so much about rust.

W. R. SHELMIRE.

Carnation Rust.

What is supposed to be the direct cause of rust? By whom was it first discovered, and what treatment were the plants given? Is the disease known to be from an internal source or an external disease?

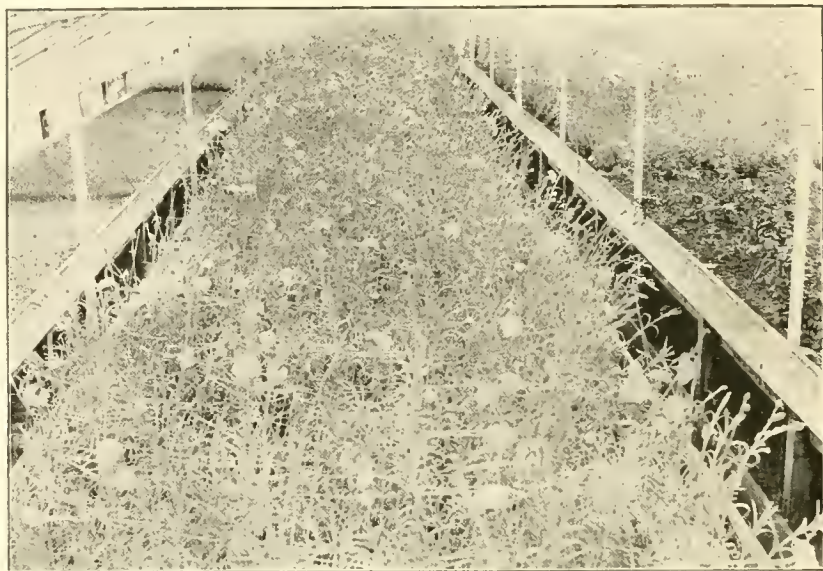
If the disease can be proved to be in the constitution of a plant, would it not be advisable to experiment in soil, thus enabling a diseased plant to obtain its cure from the roots, which are the means by which a plant obtains food for its system? What conditions are most favorable for preventing its spread, a damp or dry atmosphere?

GEORGE BEAL.

After the very cloudy weather we were blessed with this winter, we again hear more of rust. In many places where watchfulness was lulled into security by a temporary disappearance, it broke out again, stimulated by the continued cloudy sky, preventing the full drying out of the syringed plants. And again with the advent of the promised remedy for extermination, rust is brought again more in the foreground, and invites discussion. The fear to compromise one's self by asking questions disappears more and more. But even with a remedy for extermination one does not lack in watchfulness, for if successful, it can not be accomplished, it will not be a fight for one season, it may take two or three, to eradicate it thoroughly from a place infested. But to come to the questions.

There is no more direct cause than the evolution of spores growing into plants, when chances are favorable, but the spore has to be there in the first place. Rust is a fungus parasite, and wherever it appears it grows from spores (seed). We have some plants of a very free seeding adiantum among our ferns, and I am some times astonished to see them appear in remote houses and damp walls, pots, or anywhere where the spores lodged and found a congenial place to germinate. The same with rust, the minute spores are carried by the air. It has been proven that rust will attack good healthy strong plants as well as the weak and impoverished, but will make better headway on a weak one, as there is not so much natural resistance.

Concerning the first discovery, I believe this can not be told with any certainty, Dr. Arthur thinks it is an importation, and I believe he was the first to examine and tell us what it is. Some assert it existed for years in parts along the Hudson and New England. Its origin will remain unknown, for with the reputation it



BENCH OF THE NEW CARNATION IVORY AT ESTABLISHMENT OF GEO. HANCOCK & SON, GRAND HAVEN, MICH

has, hardly any one will aspire to the honor of being the discoverer. But with a certainty we can say, that with the awakening of carnation culture, with the growing trade in rooted cuttings and plants, it found its spread all over the country. As for the second part of the question, what treatment the plants were given, I believe if plants had received the same careful proper treatment as they do now in many establishments, rust would never have advanced that far. The careless slipshod culture mostly practiced was a hotbed for rust, and is in some places yet.

The disease is from an external source—the spores—but its seat is internal, for its ravages are in the tissues of leaf and stem; but in the first place started from spores externally, for the spores when ripe are expelled from the internal seat of the fungus growth for distribution by the air.

I have said rust is a fungus parasite, and is not in the constitution of the plant; it only lives upon it. A few rust pustules will not incommode the plant, but when they multiply and take possession of the whole plant its existence is doomed. Further, what is food for the one is food for the other, so what may be killing to the one, will be killing to the other. We have no power to force anything into the system of a plant, for the plant has the power to discriminate, to select its food; and if applied in such quantities that it is eventually forced to take it up it means death. The arsenical solution, when it comes in contact with the open rust pustules, will kill the rust, but it takes the leaf also. From this we must infer, if we could force the plant to take up the solution through the roots, it would kill the plant with the rust. And again, I believe if a plant is very badly rusted, and the arsenic takes effect all over, it will kill the plant also.

A dry atmosphere will prevent the germinating of the spores. We see very little rust in the field, but find plenty in the damp houses. FRED DORNER.

Carnation Ivory.

We have received blooms of this variety from the originators, George Hancock & Son, Grand Haven, Mich. The color is a

soft ivory white, the flower very large and double, fringed, the petals grouped in a distinctive manner that gives a character of its own. Though very full the calyx seems strong enough to hold it without any sign of bursting. It is fragrant, though the perfume is not as strong and clove-like as in some other varieties. The stem, however, did not impress us as being strong enough for so heavy a flower. Still the flowers when placed in a vase carried well, and they remained in good condition several days in a warm room without special care.

Number of Plants for Regular Blooming.

How many carnation plants would be required to cut 1,000 blooms per week under the disbudding process? J. F. M.

Counting on a fair average for seven months from beginning of November to end of May, it will take about 2,500 plants, or an average of twelve blooms to the plant for the season. They should be good, strong plants and planted in rows twelve inches apart and ten inches in the rows across the bench, and may consist of different varieties embracing the range of colors. It depends what varieties are grown; if Scott or other varieties of same free-blooming quality it would not take as many. Again, it would be well to consider varieties that bring the highest price in the market; even if not as free-blooming they may pay better. I am of the opinion quality pays better than quantity. FRED DORNER.

Fowler's Solution.

Fowler's solution can be purchased at 15 to 20 cents per pint in quantity. The erroneous formula in issue of March 7 is evidence of the absurdity of attempting the work of a chemist by the uninitiated. Jackson, Ga. WM. I. WAGNER.

Grubs.

I have for quite a number of years been troubled with grubs in the soil, and that in such a degree that not only did they injure our soft-wooded bedding stuff but also some of the toughest perennials. I know them to have totally cut down strong plants of *Aster Novæ Belgii* and

Novae Angliae, as well as like robust perennials. As a last resort for preventing this wholesale destruction I bought a few barrels of burned lime that had been exposed to the weather for some time, and spread it over the beds about one inch thick, mixing it properly with the ground. During last summer I had no trouble with the grubs whatsoever. Light sandy soil is the home for grubs more than any other.

But it is not as an insecticide lime plays its great role in horticulture, its great action being to destroy the excess of vegetable matter contained in the soil, and to liberate the potash for the use of the



W. H. CHADWICK,
President Horticultural Society of Chicago.

plants by decomposing the silicate from heavy clay soils. The existence of lime in the soil is found by adding diluted hydrogen chloride (chloric acid) to the soil that we wish to analyze. If it starts to boil lime exists. The boiling is caused by the escape of carbonic acid that in the soil is combined with lime as carbonate of lime.

[AS. JENSEN.

Chicago, Ill.

The Horticultural Society of Chicago.

Of the younger horticultural societies of America probably none has done better work than the Horticultural Society of Chicago. It was organized in October, 1890, and is, therefore, not yet seven years old. Since 1891 it has conducted the annual chrysanthemum shows, which had previously been given by the Chicago Florist Club, and under its management the Chicago exhibitions have made most remarkable advancement. It was this society, in conjunction with a number of eastern gentlemen, that gave the World's Fair Chrysanthemum Show in 1893, and during August of the same year there was given under the auspices of the society a most memorable banquet to horticulturists, at which were representatives from leading European countries, and at which every important state in the Union was represented.

One of the most important factors in the progress of the society has been Mr. W. H. Chadwick, who was the society's first vice-president and is now serving his sixth term as its president. He is a member of a board of trade firm. In his con-

servatories at his home in Lake View is to be found one of the best collections of orchids in the west, and he maintains also the liveliest interest in all other plants and flowers. He is intensely enthusiastic in any movement for the advancement of horticulture from the esthetic standpoint, and devotes to the affairs of the society the same energy and ability that has built up his own business.

Mr. W. C. Egan, now serving his fifth term as secretary, has retired from active business and in summer devotes nearly all his time to his country place at Highland Park, where he has the most charming place around Chicago. It contains only six or seven acres, but every square foot is so utilized as to give the greatest possible variety of flower and foliage, all in harmony and without any apparent crowding. His beautifully kept place has done more to excite a love for garden effects among the residents of this suburb than any other agency could have done, and, indeed, it has exerted a much more than local influence. "Egandale" has come to be the Mecca of all lovers of ornamental horticulture in the vicinity of Chicago.

New York.

In some respects there is an appreciable improvement in business. This is most noticeable in regard to carnations, which when up to the modern standard of perfection in flower and stem, appear to occupy a stronger position than ever in the regard of the buying public. On Sunday morning last when there was a general call for carnations from various quarters it was noted that the Greeks had no difficulty in obtaining all the roses they wanted, and at Greek prices, in fact roses were forced upon them, as there was nothing else obtainable, and whole armfuls of Saturday's surplus were thus disposed of. Lilies continue plenty and prospects are that there will be an abundance of them for Easter, as all the growers seem to have their crops well in hand as to condition and time.

Easter plant growers are making calculations on a big demand. Dean Keller, Roehrs, Dupuy and other kings in this line have big displays of the regular favorites, and each has something in way of a novelty which he hopes may make a sensation, at the proper time. Pans of bulbous stock will be plentiful. Hyacinths promise unusually well. Roehrs has them in quantity and W. H. Siebrecht, who is also a specialist in this sort of goods will have an enormous production of hyacinths, tulips and daffodils for cut flower purposes. Mr. Siebrecht complains that some varieties of tulips, notably *La Reine* and *Cottage Maid*, are giving poor results this year, a condition attributable probably to imperfect ripening of the bulbs on account of the wet season in Europe last year. *Astilbe* is not grown so extensively as formerly, but Victor Dorval has a large quantity of the compacta variety which will be just in time for Easter.

Mr. Alfred Outram states that the canna is fully as popular in England as it is in this country, and there is every indication that its popularity as a forcing plant will greatly increase. It has a strong hold on the fancy of the British public. Cannas are not forced here for Easter to the extent that they will undoubtedly reach before long. There is a place for the shades of color which prevail in cannas and if attention is given to hardening off properly and growing such varieties as give greatest substance and

persistency in the bloom the principal objection to their use will be overcome.

Sprays of leucothoe from the south are rapidly coming into use among the better class of florists here and will soon be as staple a requirement as the galax leaves have become. They are used in combination with the choicest flowers, their rich purple brown tints harmonizing well with all colors. A. Warendorff uses them with fine effect in combination with longiflorum lilies, and given a bunch of Belle Siebrecht roses, a handful of leucothoe sprays and a roll of ribbon and the result from the hands of this artist is a revelation indeed.

After April 1 the store of Warendorff & Co. on Broadway will pass into the sole ownership of A. Warendorff, Warendorff & Co. running the 6th avenue store and F. Warendorff taking the 14th street establishment.



W. C. EGAN,
Secretary Horticultural Society of Chicago.

The upward progress in the Greek fraternity is shown in the new wagon which has been put on the road by Geo. Giatris, and which boasts all the glory of uniformed driver and footman, plate glass and decorations which characterize the turnouts of Broadway's finest establishments.

J. K. Allen got a surprise on the morning of St. Patrick's Day in the shape of a consignment from one of his shippers, the flower boxes having been painted a bright green decorated with golden shamrocks, with the American flag draped over all.

Ernst Asmus is cutting some splendid blooms of *Rodocanachi* roses. All that is lacking in this rose to make it absolutely perfect is fragrance.

Visiting New York: J. C. Vaughan, Chicago, B. L. Elliott, Pittsburg.

Philadelphia.

The March meeting of the Horticultural Society was most interesting, and those who failed to attend missed a rare intellectual treat. Prof. Bailey's paper on Von Mon's theory of production of varieties showed that the professor was not only well versed in that theory, but in all the others up to date. He handled his subject in a masterly manner, and was listened to with marked attention. After

the close of the lecture, in response to Mr. Wm. F. Dreer, he gave an interesting talk on seed or struggle for existence in the seed bag. He said that from the best data that he could get there were about five times more seeds produced than were required. A small portion are carried over yearly, and at least four times as many were planted as were necessary for the crops wanted. But it was a good thing that such was the case, as the weak stock was thinned out and only the best allowed to grow. He said that many plants, citing the watermelon for one, if one seed were planted and the product from this again planted, and soon during a man's lifetime, there would be produced enough seed to cover the entire surface of the globe with this one species. The seedsman by overstocking the market unconsciously raised the standard of their specialties, for while many more plants were produced than were needed, the grower would, even if a careless man, only keep the best, as he would always leave the best when thinning out, and thus carried out Darwin's theory of the survival of the fittest. When asked by Mr. Stokes about the strongest self-blanching celery not being the best, as it generally failed to blanch, he said that in the case of the celery where the stalks most likely to blanch were needed, then the best to be left were those of weaker growth, and his theory was correct.

There was a small exhibit of vegetables and some cyclamen and hyacinths for the \$35 in prizes offered by Henry A. Dreer. That there is more interest being taken in the society's work is evidenced by the large number of new names offered for membership.

Business goes along quietly, but has no snap to it; the weather has been wretched but seems now to be settling down a bit and the days are perceptibly longer. There is plenty of stock offered at about the same prices as last week.

The Easter stock is coming on, and most of the lilies appear to be all right. *Spiraea compacta* must be scarce on the other side, as several growers have discovered numerous substitutions in their stock of what they supposed to be all compacta. Growers say they have not many orders as yet, although Easter is such a short distance away. The production is so much larger now than formerly, the dealers hesitate to place large orders early, as there is plenty to go around and to spare.

The Gun Club had another match with the Hillside, who they recently defeated in a three match tournament, and again showed their superiority, defeating them by 12 points. Ten men shot on each side at 25 blue rocks apiece. Messrs. Anderson, Burton, Colfesh, Ball, Reid, Craig, A. B. Cartledge, T. Cartledge, Harris and Parks represented the Florist Club.

Philip Alburger has been on the sick list for sometime, but is now convalescing and hopes soon to be able to be about.

Harry Bayersdorfer will sail for Europe on April 11th. The bright geniuses over there will now begin to brush up their ideas on novelties. K.

St. Louis.

The regular monthly meeting of the Florists Club took place March 12 at Odd Fellows Hall and was well attended; the proceedings were of much interest to those present. Four new members were elected and reports of committees showed that the work on the next chrysanthemum show was progressing favorably.

A large show of new carnations were

on exhibition at the meeting; they were exhibited by Mr. C. A. Kuehn, who is representative for Mr. R. Witterstaetter of Sedamsville, near Cincinnati, Ohio. The show made by Mr. Witterstaetter's carnations was very fine; Miss Emma Wocher is about the finest pink seen here this season. Everybody admired it for its color and heavy long stems. He also had two named red seedlings called Jewel and President Sunderbruch. They were also very fine in color and size. Mr. Witterstaetter also had about twenty-five other seedlings not named, and everybody expressed the opinion that they were about as fine a lot of carnations as one would wish to see. Some fine Scott and Daybreak were also shown.

The St. Clair Floral Company of Belleville, Ill., had carnations on exhibition and showed some well grown Stuart, Uncle John, Scott, Daybreak and Albertini. F. Fillmore showed a large bunch of well grown mixed carnations. The president appointed a committee of three to look into the merits of the carnations. The committee was as follows: F. C. Weber, Henry Ostertag and F. Ammann of Edwardsville, Ill.

After this Mr. J. M. Jordan read a paper on his trip to Old Mexico; great interest was taken in what Mr. Jordan said.

The club's auctioneer, J. W. Kunz, having lost his rabbit's foot could not be present, and the club appointed Mr. J. J. B. to take his place to auction the carnations. On motion the club decided that next meeting will be a rose meeting, April 9.

Van Zonneveld Bros., bulb growers, of Sassenheim, Holland, were visitors at the meeting.

Trade in the cut flower line has been very good the past week, stock was a little scarce and prices were up a little above last week. Judging from the way the weather opened this week prospects are good for a bright and warm week. Easter stock is in good shape, there being plenty of it at all the growers', and from all appearances there will be an abundance of stock appropriate for Easter, both plants and cut flowers. For lilies \$10 to \$12 per hundred on plants or cut is the average price asked in advance by the growers. Commission men report business good, selling out clean every day with the exception of Harrisii. Violets were very scarce last week, owing to a snow storm in the South; home grown bring 25 cents. Roses of all kinds are not over plentiful and brought good prices, from \$3 to \$8. Carnations were sold in 1,000 lots at \$10 and \$1.50 to \$2 by the hundred. Harrisii are selling at \$6 and callas \$5 to \$7. Smilax is also in fair demand just now and sells as high as \$18. Daffs and Romans are selling at \$2 and \$3. Several spring openings of large millinery houses Monday kept some of the florists on the jump. Some had to work all Sunday afternoon in order to have everything complete early Monday morning, the Beyer Bros. having three of these decorations.

Ostertag Bros. made a very fine decoration at the Planter's Hotel at the banquet of the Knights of St. Patrick on St. Patrick's day.

Mr. Carl Beyer, Sr., has been very sick for two weeks, but is reported better.

Two more florists have offered special prizes for the show, Beyer Bros. \$25 and E. W. Guy of Belleville, Ill., \$10.

The Florists Bowling Club Monday night rolled three games. The following good games were rolled: In three games Beneke rolled 660, C. A. Kuehn was second with 529, and Fred C. Weber third,

528. The highest single game rolled was by Beneke, 241. Al Bauer was second, 224, and F. C. Weber third with 197. The club has selected the team that will roll the Magnolias, it is as follows: J. J. Beneke, F. C. Weber, Emil Schray, C. Beyer, D. Helwig, C. A. Kuehn, and J. W. Kunz. The match will be rolled some time next week. Three games will be rolled on their alleys and three on our own, and the wish of the club is that every florist who can come will be present on those nights. J. J. B.

Cleveland.

There has been a great deal of complaint for some time past among the florists here, over the condition of business. Everywhere one hears the same story, absolutely nothing doing. During Lent one naturally looks to see a considerable diminution in the amount of business done, but the dullness lately has been abnormal; whatever the cause the effect has been most unsatisfactory to everybody.

The only thing that hastened to at all enliven the prevalent apathy has been a small "war" during the week just past. We have with us a firm that properly is not in the business, and that during the spring glut handles out of town stock (it is believed that Chicago parties are the real sinners) at figures that legitimate florists cannot touch. It is of course true that the stock is old and should not be compared with the goods that florists handle, but some of it makes a fair appearance and the result is probably prejudicial to the regular florist. Be that as it may, a prominent local florist one day last week advertised the fact that on the succeeding day he would sell roses at ten cents per dozen. Anyone can see that there certainly cannot be one hundred and fifty per cent profit on each and every dozen sold at that rate. It is likely that the florist recognized that fact very shortly for at 9 a. m. the stock was not yet in. At 10 o'clock an inquiry elicited the information that it was all sold. The sale must have lasted about sixteen minutes. One of the local papers noted the "Flower War" and added the information that some of the stock that sold at ten cents was worth from three to five dollars per dozen! Thus does the populace live and learn.

Now while the writer does not care to express an opinion, yet there can be no doubt that the provocation to some such active as the above, is considerable and the initiative of this florist is liable to be followed by others. The outside firm that provoked the trouble is not supposed to make anything directly, being satisfied with the "advertising." It may be doubtful if it pays a high class firm to advertise by means of that quality of goods, but that is a matter that can concern no one but the principal party. What does concern the florist as a question of business courtesy, not to say honesty, is this point, whether or not it is good business morals to seek to make the florist bear the burden of somebody else's advertising.

Pressure of early spring work tends to keep down the attendance at club meetings somewhat, although, all things considered, the attendance is very fair. Business that comes before the meetings is largely of a routine character, relating mostly to the convention next summer, and at the present stage cannot be very interesting reading.

Mr. Smith, formerly with Gasser and more recently with Paddock, returns in a

week or two to Mr. Gasser. He is down east at present.

Herman A. Hart has gone to New York for a short time.

Mr. J. M. Gasser, whose health of late has not been the best, is at present sojourning at Hot Springs. It is hoped that he will come back much benefited.

Harry A. Bunyard, who came to the city last fall to go into business here, has severed his connection with the firm he entered, having received several more advantageous offers. It is probable that he will go on the road again so that those in the United States and adjacent countries who have been wondering lately where Mr. Bunyard was, will once more have an opportunity to gaze into his speaking countenance. Mr. Bunyard while here has made many friends. The same qualities that made them here, will make and retain them in his future field of labor.

In town lately, several Holland bulb men whose cognomens are beyond the orthographical capabilities of the writer.

The weather has been very favorable of late for the best development of Easter stock. The temperature has been moderate, with a large share of sunny days, so that the slight earliness of the date promises to be fairly counterbalanced unless the next week or ten days should bring us an unusual amount of bad weather. As far as Easter stock itself promises, there seems to be nothing out of the usual line to offer. There will probably be the usual stock for sale, in about the usual quantities. The outlook for business at that time—well, it would only be guessing at the best. It may show an advance over other seasons. There should be some natural increase, but there has been some increase in the ranks of the florists, possibly more than enough to counterbalance any accessions among buyers. The improved financial situation may also help us. Let us hope so.

Jame Eadie will build a couple of houses this season. The style and size will be determined later.

Mr. Barclay, representing John Gardiner & Co., has been in town lately. A.

OBITUARY.

WILLIAM BROWN SMITH.

The death of this well known and venerable gentleman occurred at his home in Syracuse, N. Y., March 10, after a few days illness. But a week previous he celebrated his 81st birthday and entertained his children and their families at dinner. For more than 50 years he was identified with the nursery and florist business, the name of Smith & Powell being well and favorably known throughout the country.

Mr. Smith was a fine example of that generation which alas is passing rapidly away. His strict integrity and business capacity was universally recognized and he held many important trusts, being vice-president of the Syracuse Savings Bank and a director of two other banks, besides being treasurer of many other institutions. He was a member of the firm of P. R. Quinlan & Co., in the promotion of which he took a great interest.

Of the great changes that have taken place during the past 16 years of my knowledge of the trade here I can see that much of the great improvement is due to his enterprise.

Mr. Smith, retained his faculties to a wonderful degree to the very last. At the annual meeting of the Central New York Horticultural Society last December he

was one of the most interested listeners of Prof. Beach's lecture.

In early life he saw the likelihood of Syracuse becoming a large city and he invested heavily in real estate, which has more than realized his expectations, and the firm has now more than 500 acres under cultivation.

He was of a kindly disposition, and many a man to-day owes his prosperity to the advice given him by Mr. Smith.

The funeral was held on the 12th and was very largely attended. The room in which the casket lay was beautifully decorated with palms, ferns, azaleas, lilies, etc., so the calm face rested peacefully amongst the flowers he had loved so long and well while the last sad rites were being performed.

There were many beautiful floral offerings chief amongst them bring a broken column 6 feet high, a large broken wheel and on the casket a magnificent bunch of orchids backed by palm leaves. H. Y.

WE ARE PLEASED to be able to report that President Scott is mending rapidly and will probably be able to use his limb by next Tuesday, though he will not dare to venture out of the house for some time yet, as he is still very weak.

FALL RIVER MASS.—John Warburton & Son are building a new rose house 30x125. This addition will give them a total of 15,000 feet of glass.

JERSEY CITY, N. J.—Mr. F. W. O. Schmitz is now fully recovered from his long illness with la grippe.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—As foreman, first-class grower of cut flowers and decorative plants; 15 years' experience. E S Y, care American Florist.

SITUATION WANTED—By German, 18 years' experience in growing roses, carnations, mums etc. Address WM. DITTMAN, 25 Montrose Blvd., Chicago.

SITUATION WANTED—By a practical florist, married; first two months in this country; private place preferred. Address K M, care American Florist.

SITUATION WANTED—As foreman or manager; well up in all branches cut flower plants, decorating, etc.; age 30; first-class references. B S, care Am. Florist, Eastern Office.

SITUATION WANTED—As working foreman or manager by competent and successful grower of cut flowers and plants. For full particulars and references address L E X, care Am. Florist.

SITUATION WANTED—By first-class all-round florist and gardener (single), either private or commercial; good at design work; would run place on shares. Address H R Y, care Am. Florist.

SITUATION WANTED—As foreman; a practical grower of cut flowers and decorative plants; first-class propagator; single, 24 years' experience; good references. FOREMAN, 1019 Vine St., Philadelphia.

SITUATION WANTED—By a first-class grower of roses, carnations, chrysanthemums, violets, palms, ferns, etc.; good designer and decorator; German, married, small family; Peter's. W F, care Am. Florist.

SITUATION WANTED—English, by a first-class florist and gardener; life experience; 30 years in this country; total abstainer; first-class references. Address GARDENER, care Batchelder Bros., Cleveland, Ohio.

SITUATION WANTED—I have a No. 1 man for all-round work that I can recommend highly for either private or professional place; single; anyone requiring such a person can address me. W. C. COOK, Mgr. for Edwin Eagle & Co., 50th & Adams Ave., Chicago.

SITUATION WANTED—By an experienced grower of cut flowers (specialty, roses), palms and bedding plants, as foreman and manager; is thoroughly competent and reliable, married, age 31. For full particulars and first-class references, stating terms address D. HANSEN, 105 Garrison Ave., Jersey City N. J.

SITUATION WANTED—As foreman in commercial place to grow roses, carnations, chrysanthemums and general greenhouse stock, first-class propagator, with an up-to-date business man and a Christian; married, strictly sober and honest; best references furnished. CHAS. MOSS, box 151, Knoxville, Tenn.

SITUATION WANTED—As foreman in commercial place or head gardener on private place, or first assistant on large commercial place; years' experience in growing roses, carnations, violets, chrysanthemums, and the forcing of all kinds of bulbs and plants; now foreman over a large place; wish to make change; strictly temperate, married, good references; please state wages with house. Address FLORIST, care T. H. Curley, Kingsbridge, New York.

WANTED—To exchange cut Callas lilies for cut Harris lilies for Easter week. Address DUDLEY SISTERS, 423 School St., Beloit, Wis.

WANTED—To lease for a term of years greenhouses with some land attached; must be in or near Chicago. Address CLAUSTRON, care Am. Florist.

WANTED—A competent florist by first of April, single; a steady place for a good man; would like references. OTTO BAUMANN, Manistee, Mich.

WANTED—To lease an established florist business in a live city doing a good trade, consisting of 3,000 to 4,000 feet of glass. Address A. B. Brantford, Ont.

TO LEASE—For a term of years to a reliable florist or nurseryman, 18 lots (18x200 feet) in 23rd ward, Brooklyn, New York. Address OWNER, 1054 Park Place, Brooklyn, N. Y.

WANTED—A good smart young man for general work where cut flowers and stock for catalogue trade are grown; a good position for a good faithful hand. J. B. care American Florist.

WANTED—Information of the present whereabouts of Charles Brady; when last heard from he was working in Orange, N. J., in a private place. Send information to PATRICK O'MARA, 35 & 37 Cortlandt St., New York.

WANTED—At once, an all round experienced florist, capable of starting up a commercial place; must be a good landscape, greenhouse and design worker; must also know how to please customers; a German who has learned his trade in the old country preferred; state wages wanted with board. Address CARL HIRSCH, Hillsdale Mich.

WANTED—A first-class florist clerk and maker-up by April 6; must have had experience in florist stores where seeds and plants are also sold; when applying give full particulars as to age, married or single, wages expected, where employed last and recommendations as to character; situation permanent to the right party. Address JOHN RECK, Bridgeport, Conn.

FOR RENT—Three greenhouses 24 by 150, stocked with roses and carnations. Address JOS. BEDNAREK, Lake Forest, Ill.

FOR SALE—A half interest in a small greenhouse; a rare chance for a man just beginning the business; time given on the most of the purchase money. Address S T, care American Florist.

FOR RENT—Eleven greenhouses all heated by low pressure steam; this is a good chance for a man to go in business with a small capital; write, information free; location good. Address HENRY MOORE McLemore Ave., Memphis, Tenn.

FOR SALE—Greenhouse property in a large city west of Chicago; 8,000 feet of glass, 8-room house, two horses, two wagons, \$3,000 worth of stock; ground rent \$25 per month; price \$5,000, one-half cash. Address BUSINESS, care Vaughan's Seed Store, Chicago.

FOR SALE—A florist business—5 houses, 5,000 square feet of glass, fine stock ready for spring trade, hot water heating, 2 sheds, dwelling, etc.; all in good condition rare chance for the right use; to be sold on account of ill-health. For particulars: E. TIEDEMANN, O'Fallon, Ill.

FOR SALE.

BROAD STREET FLORAL EMPORIUM, Broad and South Sts., Philadelphia, including stock of Plants, Greenhouses, Fixtures and Lease. Property 60 feet front on Broad St., 60 feet deep, large show house in front, three small houses in rear. Present owner is retiring from business. Apply

A. W. BOERNER, above address.

FOR SALE.

I offer for 30 days one of the best investments in greenhouse property on Long Island, in 29th Ward, Brooklyn City. This is a place that in a very short time will DOUBLE in value. 12 Greenhouses, one new 200-FOOT IRON FRAME SOUTH-HOUSE, HOUSE, BARN, etc. All good as new, in perfect order. Just the place for Carnations, or Al stand for general stock. Best of reasons for selling.

HESSION'S.

Clarkson St. above Co Bldg., BROOKLYN, N. Y.

Mention the American Florist when writing to advertisers on this page.

Baltimore.

The annual election brought out a full attendance at the last club meeting, pretty much every available seat being occupied. A stand in the center of the hall supported a vase of grand Della Fox carnations, sent for exhibition by the originators, and another, just inside the entrance, upheld a vase of very fine carnations and roses in numerous varieties, sent by Mr. I. H. Moss. Mr. Wm. Hess had two very large and full flowered plants of M. Louise violets on hand, to show what he could do in producing perfect flowers and foliage.

The election was not as hotly contested in any part as generally happens, there being no competition whatever in several cases, but the result seems to give general satisfaction and a feeling of hope for a prosperous and harmonious year. Mr. Fred G. Burger was elected president, Mr. Paul Binder, vice-president; Jas. G. Rodgers, recording secretary; W. A. Ekas, financial secretary; Wm. B. Sands, treasurer; Chas. Cook, librarian.

The reports of the various retiring officers and the executive committee showed a gratifying improvement in every direction over last year; membership nearly doubled and finances greatly bettered; so it was with a light heart and good appetite that all adjourned to the banquet, to partake of the good things provided by the committee in charge.

Mr. Wm. B. Sands was toastmaster, and, though as ever, brimming with wit and humor, and bubbling over with felicitious remarks, he was not by any means alone in his glory, for several other stars have arisen, and it is greatly to be regretted that the chicken story of Ex-Pres. Graham, or Bro. Flitton's eel worm, or Christie's reply can not be given verbatim as they were unexpected indications of the opening of an era of brilliancy in repartee and anecdote which will enliven the meetings of the club immeasurably.

The following members were out at the banquet, and from Brother Donn's eloquent grace to the very last remark of Committeeman Welsh, it was an event to be remembered with pleasure: Ed Kress, J. G. Rodgers, Robt. Graham, Wm. Shannon, Wm. B. Sands, Geo. Kalb, Jas. Simpson, Wm. Fischer, Jas. Pentland, Thos. Patterson, W. Richmond, Ed Montgomery, Paul Binder, C. M. Wagner, Wm. A. Ekas, F. G. Burger, I. H. Moss, John Donn, N. F. Flitton, Wm. Christie, J. L. Wagner, P. Erdman, H. Ekas, John Johnson, C. Hess, Hy. Fischer, P. Welsh, Theo. Eckhardt, P. Weidman, M. A. Hantske, P. Berkowitz, Ed Graham, Geo. Wipfield, N. F. Flitton, Jr.; Jas. Smith, I. Hertz, J. Immold, C. Bowen, H. Lea, Wm. McRoberts, Jr.; W. Hahn, A. Repp, W. McCormick, F. Bauer, A. Hartman, C. Bostner.

Complaints of dull business, slow sales and low prices are very general, both among wholesale and retail men. There is a great quantity of flowers of all kinds pushed off on a reluctant market every week. The only thing at all insufficient supply is smilax, which is quite scarce.

MACK.

After April 15th Next.

FANCY CALADIUMS From 2½-inch Pots at \$3 per 100. Dry roots at once of *Myrosma Canadensis*, at \$10 per 100; only a few hundred left; worth double the money. Cape Jessamine, from 2½-inch pots, at \$3 per 100. Fancy Caladium, pot grown, \$8 to \$8 per 100; open ground bulbs, for \$10 per 100. Aquatics and Water Lilies very cheap. Gold Fish at bottom price. *Anthericum vittata* var., 7-inch \$0 per 100. Cape Jessamine, 2½-inch, \$3 per 100. Please Address

F. J. ULBRICHT,
Lock Box 655, Anniston, Ala.

A NEW COMMISSION HOUSE.

MILLANG & WINES

Respectfully announce the opening of a new Wholesale Establishment. The stock of a number of well known growers has been placed at their disposal and they are prepared to execute orders for

EASTER FLOWERS

at prevailing New York prices.

Also agents for a large plant establishment, and can supply

Palms, Rubbers, Pandanus, Araucarias,

and a general line of

• ~ DECORATIVE PLANTS IN ANY QUANTITY. ~ •

SAMPLES CAN BE SEEN AT STORE.

MILLANG & WINES,

Consignments Solicited.

501 Sixth Avenue, NEW YORK.

Easter Profits Made Easy.

Good stock, moderate prices, and all buyers treated alike.

This is why business is always good at

J. K. ALLEN'S

Wholesale Cut Flower Emporium.

We are right in it for Easter with an immense stock of all appropriate and desirable flowers and can serve you satisfactorily. Give us a call.



J. K. ALLEN,

TELEPHONE CALL.
382 38TH ST.

57 West 28th St., New York City.

New, Rare and Beautiful Plants

LORD PENZANCE'S New Hybrid Sweetbriars. Old Garden Roses. New Roses. Standard Roses. **PHILADELPHUS LEMOINEI**; NEW LILACS; **LONICERA HILDEBRANDTII**; **SPIREA "ANTHONY WATERER."** Etc. A large collection of rare Hothouse and Greenhouse Plants. **ANTHURIUMS, ALOCASIAS, ORCHIDS, RARE CONIFERS, and other Beautiful EVERGREENS.** **MAGNOLIAS, JAPANESE MAPLES, with other Choice TREES and SHRUBS.** **PEONIES.**—A large collection of the finest in cultivation. Hardy Perennials, Phloxes, Japanese Iris, Roses, Clematis, etc. New and Standard Fruits, etc.  Catalogues on application.

JOHN SAUL, WASHINGTON, D. C.

EASTER PLANTS.

Stocks Snowflake, a pure white truss, bushy plants from 3-inch pots, \$6 per 100. Australian Oaks from 4-inch pots, 14 to 20 inches high, \$2.00 per dozen. Calla lilies from 4 and 5-inch pots, \$2 per dozen. Carnation Nellie Lewis, pink, \$10 per 100 plants. Also fine assortment Geraniums from 2-inch pots, \$2.50 per 100. Fuchsia from 2-inch pots, double varieties, \$2 per 100. Giant Feverfew, double white, 2-inch pots, \$2 per 100. Giant double sweet Alyssum, 2-inch pots, \$1.50 per 100. Rooted cuttings of Fuchsias, Feverfew, Alyssum and many at \$1 per 100.

GEO. STAFFLINGER, Springville, N. Y.

The Great WORLD'S FAIR Success.

"Lemoine's Hybrids are the chief glory."
—*American Florist*, Aug. 17, 1893.

GLADIOLUS Lemoinei and Nanceianus.

(150 first-class named varieties offered at low prices.)

The best new Forcing Shrub

Deutzia Lemoinei,

Each 5 francs; per dozen 48 francs

Apply to **V. LEMOINE & SON, Nancy, France.**

New plants a specialty. Catalogues free.

SPECIAL OFFER.

MUSA ENSETTE: Specimens up to 10 ft. high; suitable for Cemetery, Lawn or Park decoration.

Prices on application.

SEAWANHAKA GREENHOUSES,

Oyster Bay, Queens Co., N. Y.
JAS. C. CLARK, Supt. P. O. Box 31.

THOS. YOUNG, JR.
OFFERS
A full line of High Quality
EASTER * FLOWERS.

FANCY and SPECIAL GRADES
— OF —
ROSES and GARNATIONS
in all desirable varieties.

Lilies, Daffodils, Tulips, Lilacs,
Lily of the Valley, Violets,
ETC., ETC.
FROM LEADING GROWERS.

PRICES ON APPLICATION.

THOS. YOUNG, Jr.,
43 West 28th Street,
 NEW YORK.

Springfield, Mass.

Mr. Pierson, of Mitteneague, has put up a small greenhouse and intends to grow flowers on a small scale for people living near him.

Among the disasters of the recent high water was the damage done to greenhouses owned by Mr. Madsen, of West Springfield. They were completely under water, but were protected from being overwhelmed by a dyke. No damage to his plants was done.

E. H. Howland, of Holyoke, says the season's trade has been fine.

The Rosemont, owned by Taft, has fallen into the hands of J. Beach and E. D. Shaw. They have bought the whole property and intend to make a fine thing of it, and people who know prophesy a successful future to them. Mr. Beach has and is now to attend to the growing. He is a thoroughly competent gardener and has grown very fine stock in the past. E. D. Shaw, as heretofore, will see to the selling and placing of stock, in which branch he has been singularly successful.

Roses are doing well. Carnations are very short, violets plenty and bulb flowers in abundance. Trade has been fairly quiet, but bad weather has as much to do with this as the fact that it is Lent.

At a past social event the decorations were quite elaborate, and consisted of Harrisii and Brunners. A dinner given at the Nyasset Club was profusely decorated with scarlet tulips, and presented a gorgeous appearance. The centerpiece was a flat of the tulips, which was decorated in a pretty fanciful manner.

The Amateur Horticultural Society held a special meeting, the principal speaker being Rev. W. T. Hutchins, of Indian Orchard, the sweet pea expert. He spoke on floriculture as a popular art. He spoke of the different arts of to day, as music, painting, etc., but to his mind floriculture deserves the highest place. "We are to have schools in floriculture. Our children will be trained in it as much as in music. The recent crying question among florists has been how to increase the attendance and popular interest in the great flower shows. The interest is not to be kept up by more highly seasoned and sensational attractions, but floriculture must develop a new race of art lovers who can read and enjoy the language of flowers. A person might walk through Mr. Eckford's grounds, where his twenty years' work is all spread out, and say, 'Oh, these are mixed sweet peas.' But what a delight to one who has studied the flower to read it there in the best book of all the world."

The lecturer then went on to sweet peas for 1896, speaking of the new interest we now felt in Mr. Eckford since he now knows us in Springfield. Novelties are in danger of being a drug. At our July show we shall have an advance set of six Eckford's, which he has sent specially to Mr. Hutchins, and another set of six which are new to the trade this year. We shall have the Dwarf Cupid and six other American novelties. Besides these a number of trial sorts will be shown. This show comes the last week in July, under the banner of the Hampden County Horticultural Society. Very liberal premiums are offered. B. M.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

WHOLESALE ORDERS

FOR

Dutch Bulbs

BOOKED FOR THE

GENERAL BULB COMPANY,

Vogelenzang (Holland), by

AUG. RHOTERT, Sole Agent, 26 Barclay St., N. Y.

Please Apply for Catalogue and Terms.

WE CAN SUPPLY



LILIUM... HARRISII BULBS

For Season 1896-7, at the closest prices.

On orders given in during March and April, we offer surprising inducements. Apply for same and gain by Now placing your orders.

DAN'L B. LONG,

Jobbing Florist.

BUFFALO, N. Y.

VAN ZANTEN BROTHERS,
Hillegom, Holland.

Extra quality of HIGH GRADE FORCING BULBS AT LOW PRICES. Special growers of HYACINTHS, TULIPS, NARCISSUS, Crocus, Lilies, Scillas, Gladiolus, IRIS, Anemones, Ranunculus, SPIRÆAS, Lily of the Valley, etc., etc. The largest collection of sundry bulbs and flower roots. Wholesale Catalogue upon application.

NEW CROP.

Gibson's Progressive Verbena Seed, an advance on all previous productions. Well grown specimen florets of many of the kinds 1 1/4 inches across and easily span a silver half dollar, and of the most intensely brilliant and varied colors. In fine mixture per trade pkt 25c; 1/4 oz. 50c; per oz. \$3. White Plume, separate, per trade pkt. 50c; 1/4 oz. 1.00; per oz. \$4. Purple with distinct white eye, per trade pkt. 30c. Trial pkt. 10c, either kind.

Petunia Cal. Giant, finest selection, per 1000 seeds 50c. Single fringed, Dyer's selected stock, per 1000 seeds 50c. Scabiosa Snowball (pure white) and mixed colors, per pkt. 5c; trade pkt. 25c. Dwarf French, gold striped Marigold, pkt. 5c; trade pkt. 25c. Verbena, stock plants, 3-in. including latest novelties, labelled, \$1; mixed, \$3; from flats, labelled, \$2.50; mixed, \$2.

No disease. We grow the largest Verbenas known. Variegated Vincas, strong field-grown, 3-inch, 5 to 8 shoots, \$3; nice young plants, flats, \$2; rooted, \$1 per 100, \$8 per 1000. Petunia plants, Cal. Giants, 60 c per 100 (seed pan).

Good satisfaction guaranteed or money refunded. Address, cash with order please.

J. C. GIBSON, Woodbury, N. J.

ASTER SEED, New Crop.

Home-grown, 1895. Saved from best double blooms only.

Vick's New White Branching; Truffaut's Pæony-flowered Perfection, mixed; New Victoria, dwarf, white and mixed; Giant Comet, white; Mignon White; Carter's New White Plume; Comet, white, pink and mixed. Dwarf chrysanthemum-flowered, mixed; per trade pkt. 25c; 1/4 oz. 50c; oz. \$1.75; 1/2 oz. each of any four varieties \$3.00. Princess Alice stock, same prices as Aster Seed.

GRAINGER BROS.,
TORONTO, CANADA.

ORCHIDS OUR SPECIALTY.

THE FINEST STOCK AND SELECTION IN THE WORLD.

New and Rare Plants for the Stove, Greenhouse and Conservatory.

SANDER, St. Albans, England,
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A. DIMMOCK, Agent, care Rolker's Auction Rooms, 106 and 108 Liberty Street, New York City. Send for catalogue.

SEEDS ... FOR THE ...
Garden and Farm
Vegetable and Flower Seeds. All the newest and best varieties—quality unsurpassed. Illustrated Catalogue FREE.
WEEBER & DON, Seed Merchants and Growers,
114 Chambers St., New York City.

..Another Big Easter at Raynor's..

EVERYTHING IN THE CUT FLOWER LINE..

Carnations All varieties and grades up to fancies and extras, including the finest McGowans and Scotts coming to the New York Market.

Lilies Harrisii and Longiflorums. These Longiflorums are cool-grown, well hardened off and specially adapted for the shipping trade.

Roses Meteor, Bridesmaid, Bride, Beauty, Jacq, Brunner, Morgan, La France, Cusin, etc.

Bulbous Stocks Tulips, Narcissus, Hyacinths, Valley, etc.

Big Mignonette EVERYTHING BIG BUT THE PRICES.

Send for quotations.

JOHN I. RAYNOR,

49 WEST 28TH STREET.

NEW YORK CITY.

Pittsburg.

Last week's snow, the deepest of the winter, and an all day snow on Sunday, has given the people the one good opportunity for sleighing; consequently everything on runners has been going double time this week, to the exclusion of other entertainment. Result is that trade has dropped very considerably; so much so, that the florists have experienced a dull week, and if it were not for the steady demand for funeral work, business would have been pretty flat, but as one expressed it, "We have had a good season right through, and we ought to stand a little dullness without grumbling." The growers are busy getting ready for Easter business and will be able, they say, to meet the increased demand. Mr. Fred Burki, of Bellevue, is furnishing very fine roses, equal to any, and his other stock is looking in good shape.

Mr. Chas. Konig, of Bennett P. O., exhibited several good seedling carnations. Among them was a white one which was pronounced as something extra — his regular stock is fully up to the standard.

Mr. Falconer, the newly appointed superintendent of Schcaley Park, was expected to arrive on Tuesday, but a letter from him stated he may not be here before the last of the month. He will receive a hearty welcome when he does come, and his fellow florists will try to make him feel at home.

Next week the regular meeting of the club will be held, when it is hoped that a goodly number will be in attendance, as several matters of importance are to be brought up which will make the meeting one of interest. Visiting florists will please remember that we meet on the second and fourth Thursday nights of each month and all are welcome.

Among the funeral designs made last week, one, a tribute to Clerk White, of Allegheny City Council, from the employees of City Hall, was furnished by G. Ludwig, representing a closed book on a desk. The cover was made of white carnations; the leaves of galax leaves; while the corners and back were of red carnations, imitating Russia leather; the word, "Closed," in purple immortelles.

On St. Patrick's day a new colored carnation was put on the market, and notwithstanding its dy(e)ing, was fresh and green when worn. A great many were sold, as we have a large Irish element here.

Mr. A. Patterson is confined to his bed, and has not been in town for over a week; his many friends wish him a speedy recovery.

Mr. John A. Shafer, of Carnot, Pa., has met with a very great loss, his wife dying on the 17th inst., in her 28th year. He has the sincere sympathy of the club in his heavy bereavement. REGIA.

OREODOXA REGIA

AND

LATANIA BORBONICA,

Strong plants. 2 to 3 leaves, \$3 per 100, \$28 per 1000. Express prepaid to destination.

Agaves, Camphor Trees, Dracaenas.

Grevilleas, Fancy Caladiums,

Orange and Lemon Trees,

together with many other reasonable things, all at very low prices. Send for list.

THE AMERICAN EXOTIC NURSERIES,
SEVEN OAKS, FLA.

Easter Buyers

Before placing orders send to

JULIUS LANG

for list and prices. It will pay you.

A Full variety of the best roses, carnations, lilies, tulips, daffodils, violets, and other Easter Specialties from leading growers. Quality and prices all right.

JULIUS LANG,

53 West 30th Street, - - NEW YORK.

A Mountain of JACQS —
FOR EASTER.

We shall have them and they will be good; also **Brunners** and other **Choice Roses**.

A full stock of **Lilies, Carnations, Tulips, Daffodils, Violets, Daisies, etc.,**

AT EVERYDAY PRICES.

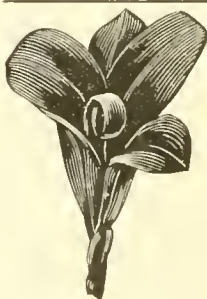
Order early and get the cream.

M. A. HART,

113 West 30th Street,

TELEPHONE CALL
1307 38TH STREET.

NEW YORK CITY.



CANNA COLUMBIA.

Order direct from the originators. Pot plants now ready. Price 50c each; \$5.00 per doz.; \$40.00 per 100.

VERBENAS.

Fine stock; no mildew, \$2.50 per 100; \$20.00 per 1000.

ABUTILONS, leading varieties, our selection \$3.00 per 100
Begonias, flowering varieties, our selection 3.00 "
Carnations, Lizzie McGowan and others 3.00 "
CALLAS LITTLE GEM 4.00 "

SEND FOR TRADE LIST.

I. N. KRAMER & SON,
CEDAR RAPIDS, IOWA.

CANNAS

Now is the time to sow seed of Florence Vaughan, Mme. Crozy, or mixed; extra fine, \$1.25 per pound, post free. Send for list.

T. H. SPAULDING, 40 E. 25th St., New York.

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Cut Flowers?

IF SO, WRITE

GEO. A. KUHL,

PEKIN, ILL.

ORDER FOR EASTER



The Carnations that take the Prizes wherever shown.

METEOR, the grand crimson.

STORM KING, the peerless white.

ELDORADO, best of all yellows.

BRIDESMAID, pinkest of pinks.

Scott, Albertini, Mrs. Duhme, Flame, McGowan, all the favorites.

Stems long and strong, flowers highest quality.

Lily of the Valley, Tulips, Hyacinths, Daffodils, Longiflorum and Harrisii Lilies.

Violets and Roses, a full supply.

Send for quotations

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51 West 28th Street.

NEW YORK CITY.

The largest stock of CUT FLOWERS in Pennsylvania.

LONG DISTANCE PHONE 5210.

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WHOLESALE FLORIST

1612 and 1614 Barker Street, PHILADELPHIA.

First quality **ROSES, CARNATIONS** and
VIOLETS by the thousand.

Wm. J. Baker

Carnations my specialty.

High grade flowers in quantity at market prices.

1432 SOUTH PENN SQUARE.

WHOLESALE FLORIST...

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To The Grower

If your stock is first class let me have it, if not first class, send to some one else. **Statements rendered weekly.** Remittances every two weeks.

All stock numbered and sold on its merits.

To The Dealer

If you want first class stock at fair prices, I can fill the bill.

EDWARD REID, Wholesale Florist,

No. 40 South 16th Street.

PHILADELPHIA.

Easter Crop of . . .

SMILAX

NOW READY.

Express paid to any part of the World at 25 cents a string. Cash with order.

ADDRESS

THE SMILAX KING,

WALDEN, N. Y.

FOR EASTER.

Araucaria Excelsa, fine plants from cuttings are offered as long as stock on hand. A No. 1 plants 15 to 18 inches high above rim of pot and 18 to 20 inches across lowest branches. \$18.00 per dozen.

Plants 20 to 24 inches high above rim of pot and 20 to 34 inches across lowest branches. \$24.00 per dozen.

F. W. O. SCHMITZ,

Wholesale Importer and Exporter
OF NURSERY STOCK IN GENERAL.

P. O. Box 29.

JERSEY CITY, N. J.

ADAISSY THAT SELLS

25 rooted cuttings of my new yellow Marguerite for \$2, by mail.

Nice 2-inch pot plants, ready for shift, 10 for \$1. It is a pleasing shade of yellow, very floriferous, with a double row of petals, and stems 8 to 10 inches long.

Sample flowers mailed on receipt of 10 cents. CASH WITH ORDER.

F. BURKI, Belleville, Pa.

Buffalo.

Business boomed up quite a bit last week, owing to the Metropolitan Opera Co. which played here Monday, Tuesday and Wednesday, causing a large call for flowers especially Beauty, Jacqs and violets.

This is the season for store openings, of which Mepsted & Asmus had a large decoration the first of the week in the store of which they occupy a part. W. A. Adams decorated for another about the same time, it being a large one quite a number of palms were used in the job. There will be several other openings to follow.

Recent visitors in town: Dutch bulb men. Not a day goes by but what we receive a call from one, but there are others to come. One of the florists (although he would sooner be out) seems quite happy he has missed them all.

P. S.

Violets.

Fred Goldring, of Albany, N. Y., is admitted to produce some of the finest Marie Louis Violets in central New York. He attributes his success to careful study of the needs of this plant, which in the first place requires ample root room. Solid beds are the best with a depth of soil of 12 to 18 inches, with plenty of drainage beneath so that the plants can have all the water possible. A mixture of soil, part loam and part horse manure, loam as fibry as possible (turf laid up is best for this purpose). Let the plants be as near the glass as possible and run the houses at a temperature of not less than 45° at night and 60° to 70° in the day. Under these conditions failure is out of the question. M.

CANNAS

2 cts. Each.

CHARLES HENDERSON, deep vermillion

PAUL MARQUANT, salmon rose.

We have surplus of these two Cannas, and while stock lasts we offer them at \$2 per 100; \$15 per 1000.

VIOLETS.

Strong rooted runners, mostly with crowns.

LADY HUME CAMPBELL,
\$1.00 per 100; \$8.00 per 1000.

THE CALIFORNIA,

\$1.50 per 100; 2½-in. pots, \$5.00 per 100.

ROSES.

We have an immense stock of all the leading varieties of **Roses, Teas, Hybrid Perpetuals** and **Winter-forcing varieties**, all from 2½-inch pots. Write us for prices.

If you have not received our Trade List, we will send upon application.

Address

ROBT. SCOTT & SON,
19th & Catharine Streets,
PHILADELPHIA, PA.

DREER'S SPECIAL OFFER

OF

Decorative and Flowering Plants Suitable for Easter Sales or Decorations.

AZALEAS.

AZALEAS.

We can still furnish a fine lot of well budded Azaleas in bushy plants, from 12 to 15 inches in diameter, at \$9.00 per dozen, \$70.00 per 100.

DECORATIVE PLANTS.

KENTIA BELMOREANA.

6 in. pots, 6 leaves, 24 to 28 in. high, \$1.50 each.
6 in. pots, 6 to 7 leaves, 28 to 30 in. high, \$2.00 each.

KENTIA FORSTERIANA.

5 in. pots, 5 leaves, 18 to 20 in. high, 50 cents each.
6 in. pots, 5 to 6 leaves, 24 to 28 in. high, \$1.00 each.

LATANIA BORBONICA.

5 in. pots, 15 to 18 in. high, 4 to 5 leaves, 50c each.
6 in. pots, 20 to 24 in. high, 5 to 6 leaves, \$1.00 each.
7 in. pots, 24 to 28 in. high, 6 to 7 leaves, \$1.50 each.
8 in. pots, 36 to 42 in. high, 8 to 10 leaves, \$4.00 each.
The Latanias are not quite perfect plants, being somewhat damaged, but not so as to make the plants unsalable, and are of exceptionally good value, especially the plants at \$4.00 each, which are fine decorative stock.

ARECA LUTESCENS.

5 in. pots, 15 in. high, 3 plants in a pot, 50c each.
6 in. pots, 24 to 30 in. high, 3 plants in a pot, \$1.25 each.

PYRAMID AND STANDARD BAYS.

We offer a grand lot of these beautiful and useful decorative plants in the following sizes:

PYRAMID SHAPED PLANTS.

6 ft. high, 30 inches in diameter, \$8.00 each.
8 ft. high, 36 to 40 inches in diameter, \$15.00 each.

STANDARD SHAPED PLANTS.

Stems 4 ft. high, with fine, bushy, globular crowns, about 4 ft. in diameter, \$15.00 each.

HENRY A. DREER, 714 Chestnut St., PHILADELPHIA.

Seeds

Large stock of our superior florists' strains on hand. Facilities for prompt service unexcelled. Our wholesale list for florists contains lower prices than ever before. Send for it if not already received.

Bulbs

CANNAS.

	Per Doz.	Per 100
Florence Vaughan	\$1.20	\$8.00
Explorateur Crampel	.85	6.00
Mme. Crozy	.75	5.00
Paul Marquant	.75	5.00
J. D. Cabos	.85	6.00
Alphonse Bouvier	.85	6.00

Let us figure now on your needs in fall Bulbs. If you haven't tried our Bulbs ask your neighbor how we pleased him. If given a trial we will take care to make you a permanent customer.

TUBEROUS BEGONIAS.

	Per Doz.	Per 100
Celebrated London Prize Strain, the best that can be had.		
Single, colors separate	\$.70	\$ 5.50
finest mixture	.65	5.00
Double, colors separate	1.50	11.00
choicer colors mixed	1.25	10.00

W. W. BARNARD & CO., Seedsmen,

186 E. Kinzie Street,

CHICAGO.

PALMS.

Latania Borbonica.

Price plants from 6 inch pots, 7 good leaves
18 to 20 inches high, well grown \$9.00
Fine plants from 5 inch pots, 5 to 7 good leaves
15 to 18 inches high, clean stock..... 6.00
They are strong rooted and will pack light.
Prices on all smaller sizes on application.

COLEUS.

Strong rooted cuttings, Golden Bedder, Verschaffelt, Autumn Glow and Nellie Grant, 60c per hundred; \$5.00 per 1000 by express. Cash with the order.

B. P. CRITCHELL & SON,
CINCINNATI, O.

H. KRIENBERG,
WHOLESALE FLORIST
104 So. 13th St., PHILADELPHIA.

Telephone 2546

Consignments Solicited.

PALM SEEDS

WE GUARANTEE full germinating power & replace seeds non-germinating
Per 100 Per 500 Per 1000
Cocos Weddelliana . . . \$12.00 \$55.00 \$100.00
Areca lutescens . . . 10.00 47.50 90.00
Areca rubra . . . 10.00 47.50 90.00
Geonoma gracilis . . . 12.00 55.00 100.00
Geonoma Schottiana . . . 15.00 65.00 120.00

On hand in excellent condition:

Latania Borbonica,

50c per 100; \$2.75 per 1000; \$12.00 per 5000.

Pandanus Utilis

\$1.50 per 100; \$12.50 per 1000; \$50.00 per 5000.

Chas. Schwake, 404 E. 34th St., New York.

PANSIES.

-- THE JENNINGS STRAIN --

of finest American grown Pansies from cold frames, fine stocky plants grown 5 inches apart; will be in bud and bloom April 1st. Stock the finest.

	Price per	100.....	\$ 2.00
Cash with	" "	500.....	7.50
order.	" "	1000.....	15.00

E. B. JENNINGS, L. B. 254, Southport, Conn.,

Grower of the finest strain of Pansies.

EASTER 1896



A full supply of all Special Stock, including



Roses and Carnations

in all Staple and Fancy Varieties.

*Lilies, Harrisii and Longiflorum,
Tulips, Hyacinths, Daffodils, Lily of the Valley,
Mignonette, Violets, Smilax and Asparagus.*

The usual careful attention to packing and shipping.

ADDRESS FOR PRICES

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WHOLESALE FLORIST

34 West 29th Street, NEW YORK CITY.

READ THIS.

Our Easter Leaders will be

.....American Beauties,



Lilies, . Ferns, . Smilax,

and the BEST VARIETIES of

Carnations... 

IN ENORMOUS QUANTITIES.

PRICES QUOTED ON LARGE OR SMALL LOTS.

PURDY & BLAUVELT

Commission Dealers and Shippers of

Fresh Cut Flowers

57 West 30th Street, NEW YORK.

Easter Supplies.

TRAENDLY & SCHENCK

Offer for the Easter Season
a full line of high-class

Roses, Carnations,
Lilies, Etc.

The best evidence of the quality of the stock we control
is the fact that several of our consignors are
among the leading exhibitors and

PRIZE WINNERS

in recent shows.

Quotations on full list of Easter Specialties will
be mailed to all applicants.

TRAENDLY & SCHENCK

38 West 28th Street, NEW YORK.

Worcester, Mass.

Although society has donned its sack cloth and ashes, trade remains surprisingly good, and with a plentiful supply of good flowers and fair prices we have no need to complain. Best carnations are still bringing 75 cents to \$1 per dozen, but they have to be very fine. Roses remain as usual \$1 to \$4, and other stuff at regular prices. Violets have dropped to \$1; bulbous stuff, with the exceptions of Von Sions, were rather slow.

The first exhibition of the season was held by the W. C. H. S., March 12th, and brought out some very fine exhibits of carnations, hyacinths, primulas and other spring flowering stuff.

H. F. A. Lange received first for hyacinths, carnations, azaleas and cut flowers; Wm. Darling first for cineraria, F. A. Blake for cyclamen, and Mrs. A. A. Hixon for calla.

H. F. A. Lange has just completed an elaborate plant for pumping liquid manure.

The Dutchmen are with us once more. Last week, Joh. Speelman, representing C. J. Speelman & Son, and H. von Teylingen, representing Van Zanten & Co.

A. H. L.

Los Angeles, Cal.

Andrew M. Garey has been elected Superintendent of Parks to succeed Elmo R. Meserve, resigned. Mr. Garey has been in the nursery business for many years, and is well qualified to accept the responsibilities of his new position. It is earnestly hoped the march of improvement in the various parks will accelerate under the new administration.

John J. Dean, foreman of Elysian Park, has resigned to go into business for himself near Redondo. Mr. Dean's many friends at Flatbush, N. Y., will be glad to know he is prospering and ere this appears in cold type will have become a Benedict.

E. R. Meserve, ex-supt. of parks, is busy as a nailer getting his city headquarters at 633-635 Broadway in proper shape to suit his esthetic ideas. It is predicted Mr. M. will make a great success of this branch of his business, as he has a host of friends in the city.

Fred Rafferty, of Santa Ana, is disposing of his large stock of tuberous begonias. He has not found them profitable to grow, and will devote his time to other specialties.

Lewis H. Conklin, the Broadway florist, has retired from business. W.



PALMS AND DRACAENAS

	In. pot.	In. high.	No. of leaves.	per 100.
Corypha Australis	3 8 to 10	3 to 4	8	\$9.00
" "	5 26 to 30	6 to 7	58	00
" "	7 32 to 36	7 to 8	90	00
" "	8 40 to 42	8 to 10	160	00
Phoenix Canariensis	2 6 to 8	2	4	50
" "	3 10 to 12	3 to 4	7	00
Dracena indivisa lineata	3 12 to 15			4.00
" "	4 16 to 20			6.00
Latania Borbonica	2 8 to 10	2 to 3	3	3.75
" "	3 10 to 12	3 to 4	4	7.50
" "	8 30 to 32	6 to 7	1	7.75
" "	10 34 to 36	7 to 8	3	3.00
" "	12 38 to 42	8 to 9	4	4.00
" "	12 44 to 50	9 to 10	5	5.00

W. J. HESSER, Plattsmouth, Neb.

Mention the American Florist when writing to advertisers on this page.

SACALINE! SACALINE! SACALINE!



No other forage plant has ever created such widespread discussion as Sacaline. Much that has been said of it, especially by the enemies of the plant, has been pure speculation. Facts are, however, becoming established and while it has not been proved that it will yield 180 tons of forage per acre annually, as claimed, yet the statement that it will become a noxious weed has been proved false; as it cannot be induced to produce seed with us. That cattle and horses will eat it, both in the green and dry state, without coaxing, has been conclusively proved also. Its ability to grow and flourish during prolonged drought, when all other

forage plants fail utterly, has likewise been proved the past summer—rendering it of value that cannot be estimated, in the West and Southwest at least, where the cattle

interests are so great. But discussion and difference of opinion will, we fear, continue for a long time—in fact we are very much afraid Sacaline will have many enemies, and from no defect in the plant itself, the true Sacaline; but by reason of so many seeds and plants of worthless kinds of Polygonum having been sent out for it. We have no way of knowing accurately but from the best sources of information at our command, we are forced to the conclusion that there have been more than double the amount of spurious plants and seeds distributed throughout the United States for Sacaline than there have been of the genuine species, *Polygonum Sachalinense*.

Home Grown Roots, Strictly True and Pure.

The accompanying illustration is a fair representation of the plants of Sacaline we offer. They are well developed roots with perfectly formed crowns and numerous large, plump, fully matured eyes. They are simply perfect. Best of all we know positively that every one is the genuine Sacaline. We have tested the seed we offer and know it to be the true Sacaline and fertile. This is why we cannot offer it at such low prices as some others. It has been re-cleaned and is free of husk or chaff—all pure seed.

Roots, 1.00, \$5.00, 1000, \$45.00. Seed, oz., \$100; ¼ lb., \$3.00; pound, \$8.00.



THE LOVETT CO., Little Silver, New Jersey.

ROSES, TREES, BULBS, PLANTS.

200,000 Strong, hardy, nursery grown Roses.
500,000 Pot Roses, Teas, China, Bourbon, etc.
Greenhouse plants of all descriptions.

100,000 Elegant Poplars, 5 to 25 feet, Carolina Aurea, Lombardy.

ONE THOUSAND CAR LOTS of OTHER ORNAMENTAL TREES, SHRUBS, Etc.

250,000 Peach, choicest sorts.
150,000 Pear, standard and dwarf.
100,000 Plum, best European and Japan.
75,000 Cherry, Morellos, Hearts, etc.
150,000 Apple, Quince, Apricot.

100,000 Nut bearing trees.
2,000,000 Small Fruits, Grapes, Currants, Gooseberries, Raspberries, Blackberries, Dewberries, Strawberries.

We occupy one and a half miles on the bank of Lake Erie. No healthier, hardier trees are grown on the continent. Catalogue and Trade List free. Lower quotations given on large lots. Write us We can do you good

42nd YEAR.

1000 ACRES.

29 GREENHOUSES.

THE STORRS & HARRISON CO., PAINESVILLE, OHIO.

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AUGUSTA GA

Boston.

The much dreaded period of Lent has already more than half gone and trade in general seems to have been affected but slightly up to the present time. This is probably due largely to the fact that Lent is early this year and spring appears to be late, so that the heavy spring crop of flowers has not yet materialized. But whatever the cause may be the result is certainly most satisfactory to all concerned excepting the street peddlers, who naturally are happy only when a surplus exists. Prices on roses have dropped somewhat and when they are of second quality they are with difficulty disposed of, but there is a fair demand for all the first class blooms offered. In carnations the situation is even better. Prices have never been firmer at this season of the year, and there is no excess of any color, whites especially selling briskly. Violets, on the other hand, are poor property, sales slow and prices way down.

The list of floral tributes sent to the funeral of the late Governor of Massachusetts at Lowell included twenty-five wreaths of all descriptions, sixteen bunches of roses, lilies, etc., five bunches of crossed palms with flowers, four mounds, four large standing crosses, three baskets, two pillows and one each of standing column, wreath on stand, tablet, arch, crescent and faith, hope and charity. The church was beautifully decorated by Galvin Bros. The front of the platform was hidden with an elaborate display of azaleas and palms, the columns supporting the organ were covered with lilies and the vestibules and stairways were lined on both sides with evergreens and bay trees.

On Saturday, March 14, Wm. S. Egerton, Superintendent of Parks, Albany, New York, read an interesting paper on park planting. There was a large audience present and the floral display was more extensive than usual. Mr. F. L. Harris showed the handsomest lot of amaryllises ever exhibited here. The varieties were Calabar, scarlet, Fresca, crimson scarlet, Madonna, white, veined red, Cupid, white, striped crimson and Olympia, an enormous bloom, vermilion with green and yellow midrib. James Comley showed some good roses, among them being the beautiful pink one named for himself. David Nevins staged his first lot of hybrid roses, which were of the accustomed high grade, and Carl Blomberg showed a collection of choice greenhouse bloom. Two seedling carnation were exhibited by F. A. Blake. The spring show will open on Tuesday, March 24, and continue four days.



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Toronto.

This month's meeting of the Gardeners' and Florists' Association will be principally devoted to "Ferns" and all the members have been asked to bring fronds or plants. An interesting meeting is expected. The 1896 chrysanthemum show prize list will also be up for consideration and adoption, the executive committee having recently revised last year's list, though very few alterations were suggested; further improvements will no doubt be made. The list will be printed and distributed as soon as it is passed.

The design trade appears to have been good all last week, but the general demand for cut flowers, though better than the week before, was slow. Bulb stuff is getting a little scarce and is bringing slightly better prices. Dunlop reports having some difficulty in filling large orders in this line, particularly in daffodils. He is sending in some very fine Brides now. The plant trade is much quieter, not much need be expected of it until Easter.

Although the weather still keeps cold there is now no lack of sunshine and this is making the quality of all flowers coming in very fine. There are a few Easter lilies to be seen about. I heard a week or two ago that some of the boys were likely to be late again with them, but with a continuance of this weather they ought to be able to get them in on time.

Mr. Wm. Campbell, for many years city editor of the *Toronto Daily Globe*, will be the editor of *The Canadian Garden* and Mr. Geo. Vair, the best known horticulturist in Canada, will be assistant editor and business manager. They expect to have the first number out some time in April.

Richardia Elliottiana, the yellow calla, is now in fine feather at the Steele, Briggs Co.'s greenhouses. It is a splendid thing, a good clean, bright color, and appears to be as floriferous as the common calla.

E.

ROSES, H. P. and Moss, 2 year dormant, suitable for 4 and 5-in. pots, per 100 \$6.
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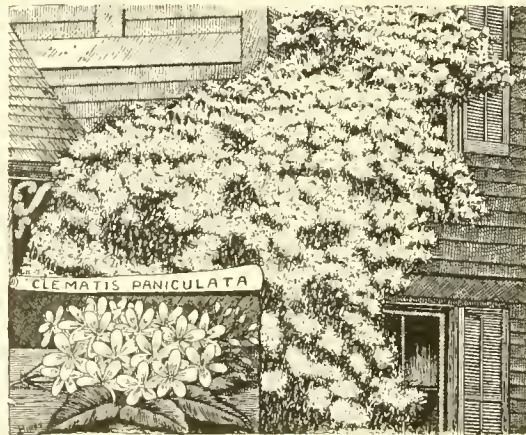
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If to be sent by mail add 10c per 100. Cash with order.		

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of the best the market affords, including **Plenty of Lilies.**

We can assure the filling in good shape of **all orders booked by March 28.**

We will make you the **Most Favorable Market Rates** and give our usual careful attention to packing and shipping at the proper time.

The indications are that flowers will be scarce for Easter, but owing to our having so many growers to draw from **We** expect to be able to fill all orders that are booked early.

Watch our adv. in the **Florist** of next week for latest particulars.

If our new catalogue of **Wire Designs** and **Florist's Supplies** has not been received, write for one.

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Lantana, fine, best varieties.....	4 00
Lemon Verbena.....	4 00
Lobelia.....	3 00
Moon-Flower.....	\$25 per 1000 3 00
Manettia, 2 and 3-inch pots.....	4 00
Alternanthera.....	3 00
Pandanus utilis, 2-inch pots.....	8 00
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Verbenas, every variety.....	2 50
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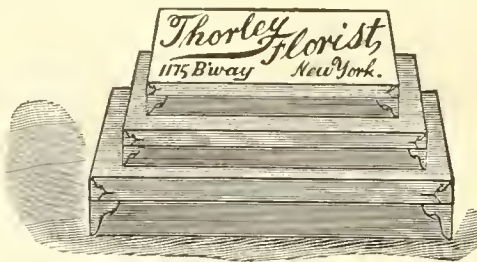
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WM. SCOTT, Buffalo, president; ADAM GRAHAM, Cleveland, O., vice-president; W. J. STEWART, Boston, secretary; H. B. BEATTY, Oil City, Pa., treasurer. The twelfth annual meeting will be held at Cleveland, O., August, 1896.

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PLEASE mention the AMERICAN FLORIST
every time you write to an advertiser.



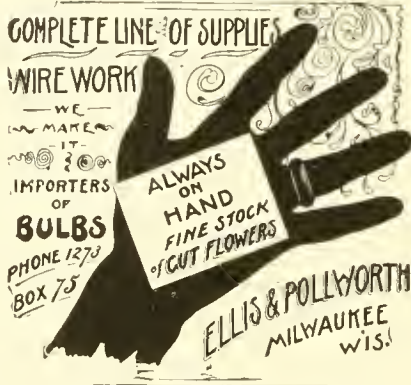
The boxes as they appear when set up for use.

We make them in a sufficient number of sizes, including for violets, to meet all necessary requirements.

THE NATIONAL FOLDING BOX & PAPER CO.,

NEW YORK SALESROOM:
132 & 134 Franklin Street.

315--325 Congress Ave., NEW HAVEN, CONN.



W. ELLISON, WHOLESALE

Cut Flowers & Florists' Supplies

WIRE DESIGNS.
1402 PINE STREET,
—St. Louis, Mo.

C. A. KUEHN, (Successor to ELLISON & KUEHN.)

Wholesale Florist,

1122 PINE STREET,
—ST. LOUIS, MO.

A complete line of Wire Designs.

H. L. SUNDERBRUCH, Wholesale Florist

4TH AND WALNUT STREETS,
Cincinnati, O.

The Boston Flower Market

is prepared to purchase, on order, and
ship Trade orders for Cut Flowers at
prices ruling in the market on day of
sale. TERMS STRICTLY CASH.

Address WM. J. KENNEDY, Mgr.,
Flower Market, Park St., BOSTON, MASS.
Long Distance Telephone "Haymarket 638."

DAN'L B. LONG, FLOWERS AT WHOLESALE.

Strictly Commission Business.

SUPPLIES, ETC.
LISTS FREE. BUFFALO, N. Y.

A. & F. RÖLKER, Down-town Wholesale Florists, 106 & 108 Liberty Street (Basement), —NEW YORK.

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"The National"

Folding Flower Boxes are the best
and most convenient ever put upon
the market. They are made from
board, manufactured especially for
these goods, and made so as to resist
moisture, thereby keeping the flow-
ers fresh, and the box holding its
shape.

THE NEW YORK CUT FLOWER CO.,

119 and 121 W. 23rd St., and
112 and 114 W. 24th Street,

IS NOW OPEN FOR BUSINESS.

The Largest Dealers in

CUT FLOWERS IN THE WORLD.

Handling flowers of all kinds in quantity
we are in a position to fill shipping orders
promptly. We shall give careful attention
to this branch of the business, and solicit
your patronage.

WHOLESALE FLORISTS

JOEBERS IN
FLORISTS'
SUPPLIES,
FLORISTS'
VASES.

METS,
BRIDES,
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.

84 Hawley Street,
BOSTON, MASS.

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Always mention American Florist.

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Wholesale Florists,

NO. 2 BEACON STREET,

Near Tremont St., BOSTON, MASS.

Asparagus Plumosus Nanus.

Cut Strings, 8 to 10 feet long,

50 CENTS.

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SEEDS, BULBS AND ALL
FLORISTS' SUPPLIES.

KENNICOTT BROS. CO. Wholesale Cut Flowers and FLORISTS' SUPPLIES, 88 Wabash Avenue, CHICAGO.

Bassett & Washburn, Successors to J. B. DEAMUD & CO., CROWERS and WHOLESALE DEALERS in CUT FLOWERS, 88 Wabash Avenue, CHICAGO. HEADQUARTERS for AMERICAN BEAUTIES.

Reinberg Bros. WHOLESALE CUT FLOWERS, 51 WABASH AVENUE, Telephone Main 4937, CHICAGO. Our Roses best them all, in quality. Headquarters for fine American Beauties.

W. E. LYNCH, WHOLESALE CUT FLOWERS, Wire Designs a Specialty. 59 WABASH AVENUE, CHICAGO.

ROGERS PARK FLORAL CO., Wholesale Growers of CUT FLOWERS, 41 WABASH AVENUE, CHICAGO.

We are prepared to fill your orders with first-class flowers. Give us a trial order.

A. G. Prince & Co. WHOLESALE COMMISSION FLORISTS, 41 Wabash Avenue, Telephone Main 3208. CHICAGO. Shipments collected. Prompt attention to all orders.

JOHN P. TONNER, 41 Wabash Ave., CHICAGO, GROWER AND WHOLESALE DEALER IN CUT FLOWERS

Terms strictly cash. Consignments Solicited.

FLOWERS at RETAIL.

We are prepared to fill orders—received by mail or telegram—for Cut Flowers, etc., to be delivered in Cincinnati and suburbs or nearby towns.

Customary discount to the trade.

HUNTSMAN & CO.,
615 Race Street, CINCINNATI, O.

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Wholesale Markets.

Cut Flowers.

NEW YORK, Mar. 19.	
Roses, Beauty, extra grades...	10.00@25.00
" " culls	2.00@5.00
" Niphetos Perle	1.00@3.00
" Cusin, Watteville	1.00@3.00
" Bride, Bridesmaid	2.00@6.00
" Testouts	2.00@8.00
" Meteor, Morgan	2.00@8.00
" Jacqs	5.00@12.00
Carnations, ordinary	1.00@1.50
" fancy	2.50@5.00
Violets	1.00@2.00
Valley	1.00@1.50
Daffodils	1.00@1.50
Tulips	1.00@1.50
Freesia	2.00@3.00
Longchilum, Harriell	2.00@3.00
Mignonette	50@75
Lilac, per bunch	75@1.00
Adiantum	50.00
Asparagus	12.00@15.00
Smilax	

BOSTON, Mar. 19.	
Roses, Gontier, Niphetos	2.00@3.00
" Perle, Hoste	2.00@4.00
" Bride, Bridesmaid, Mermet	4.00@8.00
" Meteor	5.00@10.00
" Beauty	10.00@35.00
" Brunner	21.00@50.00
Carnations	1.50@2.00
" fancy	2.00@2.50
Violets	2.50@5.00
Valley	2.00@3.00
Harriell, callas	4.00@6.00
Acacia pubescens	16.00
Romans	1.00@2.00
Freesia	1.50
Daffodils double	2.00@3.00
" single	1.00@2.00
Marqueteries	1.00
Mignonette	2.00@4.00
Adiantum	1.00
Smilax	15.00
Asparagus	50.00

PHILADELPHIA, Mar. 18.	
Roses, Beauties	8.00@40.00
" Brunners	25.00@40.00
" Larks	20.00@25.00
" best selected teas	8.00
" seconds and small stock	4.00
" Morgans	10.00@12.00
Carnations, general stock	1.00@2.50
" selected and choice kinds	2.00
Harriell	6.00@8.00
Valley	2.00@4.00
Romans and Paper White	2.00@3.00
Tulips	50@1.00
Violets	2.00@3.00
Mignonette	2.00@3.00
Freesia	1.00@2.00
Smilax	15.00@20.00
Asparagus	50.00
Maidenhair	1.00

CHICAGO, Mar. 20.	
Roses, Beauties	25.00@40.00
" " seconds	6.00@20.00
" Perle, Morgan, Siebrecht	3.00@5.00
" Brides, Bridesmaid	4.00@7.00
" Meteors	5.00@7.00
" Testout	6.00@8.00
Carnations	75@1.50
" fancy	2.00@2.50
Harriell, callas	6.00
Valley	3.00
Violets	35@.75
Roman hyacinths	2.00@3.00
Narcissus	2.00@3.00
Hyacinths, Dutch	4.00@6.00
Narcissus Von Sion	2.00@3.00
Freesia	2.00
Smilax	12.50@15.00
Asparagus	50.00

ST. LOUIS, Mar. 18.	
Roses, Beauties long	30.00@50.00
" select stock	5.00@8.00
" general stock	2.00@5.00
Carnations, fancy	2.00@2.50
" ordinary	1.00
Valley	2.00@3.00
Harriell	6.00
Callas	5.00@7.00
Romans	2.00@3.00
Daffodils double	2.00
" single	50@1.00
Tulips	2.00@3.00
Violets, sing. homegrown	.25
" double	.50
Freesia	2.00
Smilax	15.00@18.00

BUFFALO, Mar. 18.	
Roses, Beauties	20.00@30.00
" Meteors	6.00@8.00
" Bridesmaid, Mermet, Bride	6.00@8.00
" Cusin, Perle	5.00@6.00
Carnations, fancy	1.50@2.00
" common	1.25@1.50
" short	.75
Harriell	12.00@15.00
Callas	10.00@12.00
Romans	2.50@3.00
Valley	4.00
Violets	10@.75
Tulips	3.00@3.50
Daffodils	3.00
Smilax	15.00@20.00

GEORGE A. SUTHERLAND, Successor to PECK & SUTHERLAND, Successors to WM. J. STEWART, Cut Flowers and Florists' Supplies WHOLESALE. 67 Bromfield St., BOSTON, MASS. New England Agent for the GREAT ANTIPEST.

John I. Raynor, 49 WEST 28th STREET, NEW YORK.

SPECIAL EXTRA STOCK OF
AM. BEAUTY, METEOR,
BRIDESMAID, BRIDE.

DISBUDDED CARNATIONS.
FANCY GRADE.

Finest MIGNONETTE in the world.

THOS. YOUNG, Jr. Cut Flowers, WHOLESALE, 43 W. 28th Street, NEW YORK.

WALTER F. SHERIDAN, WHOLESALE FLORIST 32 West 30th Street, NEW YORK.

Roses Shipped to all points. Price list on application.

Edward C. Horan, 34 W. 29th Street, NEW YORK, WHOLESALE • FLORIST.

Careful Shipping to all parts of the country.
Price list on application.

Purdy & Blauvelt, WHOLESALE DEALERS IN CUT FLOWERS, 57 W. 30th St., NEW YORK.

JOHN YOUNG, FINE ROSES WHOLESALE, 51 West 28th St., NEW YORK.

FRANK MILLANG, CUT FLOWERS, WHOLESALE, COMMISSION, 408 E. 34th Street,

Cut Flower Exchange, NEW YORK.

THEO. ROEHRs, WHOLESALE FLORIST 111 WEST 30TH STREET, Established 1879. NEW YORK CITY.

JULIUS LANG, (Formerly with THEO. ROEHRs.) Commission Dealer in Cut Flowers, WHOLESALE, 53 West 30th St., NEW YORK CITY.

The Seed Trade.

AMERICAN SEED TRADE ASSOCIATION.

S. E. BRIGGS, Pres.; T. W. WOOD, 1st Vice-Pres.; ALEX. RODGERS, 2nd Vice-Pres.; A. L. DON, 114 Chambers St., New York, Sec'y and Treas. The fourteenth annual meeting will be held at Niagara Falls, N. Y., June 9 to 11, 1896.

Seed Warranty.

EDITOR AMERICAN FLORIST: The controversy recently inaugurated in the columns of the AMERICAN FLORIST bids fair to awaken a lively discussion on the important subject of seed warranty. From what has been said and heard it seems that the disclaimer as adopted by the Association in 1889 is to be considered to have outlived its usefulness, or have become objectionable in form and tenor—perhaps not high toned enough to answer the present purpose.

The form as presented by the committee was intended and so recommended to be printed on all, even the smallest, seedbags; therefore it was the aim to reduce, not to increase, the words, without in any manner lessening the effect of its intended purpose. I for one always considered it to be highly creditable to the three gentlemen who formed the committee to draft it. I doubt if an improvement in as few words can be made on it. Originally it was framed to guard against the unscrupulous, not against honest fair-minded seed buyers, who deserve all consideration, should errors occur; while for the evil intended no language too strong can be used. It is much better to give such undesirable customers to understand that they must bear the responsibility undivided, should any attempt of fraud be made in any false representations in regard to results of crops.

The adoption of the document was not made compulsory either to members or non-members of the Association, consequently there is no reason why any firm cannot clothe it with language more fit to their taste, the ultimate purpose will be protection. The question will be: Will it become more readily understood as it increases in words, or will it lose in effect as words increase? No doubt it will in the class it is to advise and inform.

It may not make a favorable impression on seed buyers receiving price lists with partly guaranteed assurances of the grade of seeds as offered for sale, while the seed bags containing such seeds are printed with the full text of the disclaimer, except the words: "and the money will be refunded,"—perhaps an error of the printer—as adopted by the Association. How such double dealing will bear on the intelligence of seed buyers, must be left to their own good judgment.

A return to the old warranty system, by any seed firm, at this time may become more injurious than profitable. Seed growers, merchants and planters have by the different unions become so intimately acquainted with each other that all secrets of trade are fully known by each other, so that any attempt in that direction would create an unfavorable suspicion. Self praise and over-done laudation are not the means to strengthen business confidence; yet no one can be blamed in placing the best foot foremost, if done in a graceful manner; it may lead the better to success.

R. M.

NEW ORLEANS, March 10.

CATALOGUE TRADE is reported as improving, and there is a brisk demand for grass seeds.

MR. LEW BOWEN, of D. M. Ferry & Co., was in Chicago March 14.

THE directors and employes of the Steele, Briggs Seed Co., Toronto, had a very pleasant social gathering at the conservatories of the Co., March 7, with music, dancing and refreshments.

THE slight redeeming feature in the dull mail trade which still continues, lies in a reported improved plant trade; just why this should be when the weather is too cold for the seed trade, puzzles the wisest. Trade must improve soon and very much to equal that of last season.

IN CONFORMITY with the joint resolution regarding gratuitous distribution of seeds which became a law without executive approval, the Secretary of Agriculture on March 18 issued a circular inviting proposals to supply about eleven millions of seed packets at the very early date of April 15.

San Francisco.

Some excellent Kaiseriums come from Mr. George Karmen's place. The trade in plants is not very brisk although some of the stores are pretty well cleaned out.

Frank Pelicano, of Kearney street, has been sick for the last week at his home. We are happy to learn that he is now on the road to recovery again.

The Misses Worn have opened up a very pretty store at 14 Post street.

The firm of E. & R. Mann, on O'Farrell street, has been dissolved by mutual consent. Mr. R. Mann will continue the business at the old stand.

The long looked for rains have come at last and all the seed growers are happy. Things were beginning to take on a serious aspect, because all the crops are several months behind already. At Gilroy this rain will be a boon. The onions, which were coming up, slowly began to turn yellow and burn, the same with everything that was planted late in the season.

Mr. Andrew McDonald has resigned his position with E. E. Eyre at Menlo Park.

Mr. Geo. Hillyer, recently of Chicago, has accepted a position with Mr. M. Lynch of Menlo Park.

The Santa Rosa Rose Society has about completed arrangements for their rose carnival in May. It is to last a week and from the program we believe that it is going to be a grand affair. The San Jose Floral Society also have nearly completed their arrangements, and already we can see signs of their labors in the decorative line.

Mr. Jos. Carbone is looking for a suitable place to grow his plant novelties. Mr. Carbone will be remembered as the originator of the "California violet" and he claims to have several other novelties which will become standard varieties.

The annual hyacinth exhibition of the California State Floral Society took place in the Maple Hall of the Palace Hotel and was a very creditable affair. Some finely grown specimens were shown by nearly all the members, and a few of the trade made appropriate exhibits. The next show of the society will be the wild-flower exhibition in March. METEOR.

Agents Wanted

by an important European seed and bulb growing firm, in the chief town of each of the principal states; must be acquainted with the trade. Address

D C, care American Florist.

CARNATIONS for 1896

Feb. 21

Elderado, 5 40.

Koumion, 4 40.

Ophelia, 4 40.

Unc. Jno 2 10 70

McGowan, 2 10 70

Fisher, 4 40.

Sweetbrier, 2 15.

Scott, 4 40.

Cartledge, 4 40.

Daybreak, 4 40.

Portia, 15 20 12 50

Buttercup, 4 40.

Orange Blossom, 2 15.

Heller, 4 40.

VIOLETS

Farquhar, 4 40.

Campbell, 4 40.

CHRYSANTHEMUMS

Elderdown, 10.

H. W. Rieman P

EDWARD SWAYNE, CARNATIONIST

Kernell Squa Feb. 19th

Gentlemen.

We take pleasure in qual-

ing 25 our column indicates

and should like to draw you at

center particularly to Carnation

Elderado which we believe is

destined to take the leading place

among yellow, as it has shown up

equally well in ash & green and in the

market, bringing double the price of

ordinary varieties, also to Buttercup

Violet, which is making quite a

star in New England and of which

we have very bright clean stock.

Yours truly

Edward Swayne

CARNATIONS

Rooted cuttings in immense quantity, strong and well rooted and particularly free from rust.

	Per 100	Per 1000
Daybreak	\$2 00	\$15 00
Wm. Scott	2 00	15 00
Thos. Cartledge	2 00	15 00
Tidal Wave	2 00	15 00
Lizzie McGowan	1 50	12 00
Silver Spray	1 50	12 00
Portia	1 50	12 00
Lady Campbell Violets in any quantity	1 00	8 00

JOS. RENARD,
UNIONVILLE, PA.

CHESTER CO.

PA.

J. B. HEISS, Dayton, Ohio.

	per 100	per 1000
SMILAX—2 in., December sown	1 50	\$ 12.00
ROSES—2 1/2 in., December propagation, ...		
Am. Beauty	5 00	40 00
Bridesmaid	3 00	25 00
Bride	3 00	25 00
Marchal Niel (summer propagation)	4 00	35 00
CARNATIONS—Rooted cuttings, McGowan, Wm. Scott, White Dove, Daybreak, Silver Spray, Portia and Jacqueminot	1 25	10 00
PALMS—Phoenix tenax (2 leaves), Phoenix recinata (3 leaves), Phoenix Dactylifera (2 leaves), Phoenix canariensis (2 leaves), Areca lutescens (2 leaves), all 1 year old plants in prime condition	6 00	50 00
DRACENA INDIVISA—Strong plants, one year old	5 00	45 00
4 NEW MIGNONNETTES—Reseda Victoria, Reseda Gigantea pyram., Reseda Gabriele, Reseda Lomman grand, pleur, fresh seeds	\$0.50	per oz.
Delphinium sulphureum	2 00	
Andrithium Koeniglein des Nordens	2 00	
If you raise Cut Flowers you cannot get along without these seeds for summer and fall.		
Cash must accompany all orders.		

WANTED.

Buyers for 100,000 rooted Carnation Cuttings of leading varieties, and 25,000 Lady Campbell Violet runners.

Send for list.

Wm. Swayne,

P. O. Box 226, KENNETH SQ., PA.

LOOK HERE!

1000 Buttercup Carnations, the best yellow to-day; healthy stock, 2 1/2-inch pots, \$5 per 100. Cash with order.

CONRAD HESS,

329 Friendship Ave.,

Baltimore, Md.

CARNATION CUTTINGS.

	per 100	per 1000
DAYBREAK, TIDAL WAVE	\$2.00	\$15.00
ALBERTINI, SCOTT	2.00	15.00
EMILY PIERSON	2.00	15.00
ROSE QUEEN, LIZZIE GILBERT	5.00	40.00
BRIDESMAID, METEOR	5.00	40.00

No rust and only healthy selected stock taken.

BELL MILLER, Springfield, Ill.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.



WHY DO YOU HESITATE?

Money will not Grow in your Pocket. The following items will, if planted now.

	Trade pkt.	Oz.
ASTERS Branching White.....	.25	\$2.00
" Victoria, separate colors.....	.50	3.50
" " mixed colors.....	.50	3.00
" Truffaut's Perfection, separate colors.....	.25	2.00
" " " mixed colors.....	.25	1.25
" Comet, mixed.....	.25	2.00
Carnation Marguerite, mixed.....	.25	1.25
Centaurea Gymnocarpa.....	.15	.40
Cobaea Scandens.....	.15	.35
Cosmos, mixed.....	.15	.40
Mignonette Machet.....	.10	.50
Nasturtium. Tall mixed.....	per lb.	60c.
" Dwarf mixed.....	per lb.	80c.
Phlox Drummondii grandiflora mixed.....	.15	.50
Primula Fimbriata, choice mixed.....	1.00	
Ricinus Zanzibarensis, mixed.....	.10	.15
Smilax.....	.15	.40
Stock Boston Market, white.....	.50	4.00
Thunbergia, mixed.....	.10	.30

WM. ELLIOTT & SONS, 54 and 56 Dey St., NEW YORK.



N. DAMES,

OF THE FIRM

Van der Horst & Dames,

(Formerly G. VAN DER HORST & CO.)

BULB GROWERS,

Heemstede, Lisse, Holland,

is on his round trip in America. To save time, we beg to address all letters up to April 20, care of Knauth, Nachod & Kuhne, 13 William St., New York. Our motto is "Fine stuff makes cheap prices." Our dealings in America is increasing every year. Write at once for quotations. Yours truly, **N. DAMES,**
OF VAN DER HORST & DAMES.

ASTER SEED.

This, and first part of next month is the time to sow seed for outdoor blooms of the celebrated strain of **Semple's Asters**; endorsed by the leading florists all over the country, either for indoor or outdoor blooming.

Largest flowers, exquisite color, Pink, White and Lavender, mixed seed (separate colors all sold) always a seller.

NO EQUAL in the market. Seed all grown in '95. Stock limited now. Order soon from

JAMES SEMPLE, Box 2, BELLEVUE P. O., PA.

NORTHRUP, BRASLAN, GOODWIN CO.

Being **GROWERS** we are in a position to supply **Seeds of First-Class Quality** and to make **specialty low prices**. A trial will convince those who have not yet found this out.

NORTHRUP, BRASLAN, GOODWIN CO.

20 to 28 Hennepin Ave., MINNEAPOLIS, MINN.

55, 57 & 59 N. Jefferson St., CHICAGO.

WE ARE HEADQUARTERS ON
**BULBS FOR FORCING,
FLOWER SEEDS FOR FLORISTS
ENGLISH MUSHROOM SPAWN.**

Special prices on application.

**JOHN GARDINER & CO., Seedsmen,
631 Market St., Philadelphia, Pa.**

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

WRITE TO
R. & J. Farquhar & Co.
SEEDSMEN.

16 & 19 S. Market St., BOSTON, MASS.

If you want **THE VERY BEST.**

**SEEDS, Bulbs, Neponset Paper Pots,
Home-made Mushroom Spawn, etc.**

CATALOGUE FREE.

FOR SALE.

12 Large and Bushy RUBBER PLANTS, fine for cuttings, at a bargain.
One Large LATANIA BORBONICA.

H. STEINMETZ, Raleigh, N. C.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.



Giant Comet "Snow."

Pkt. 25c, 1/4 oz. 75c, oz. \$6.00.

VAUGHAN'S FLORISTS' ASTERS.

White Branching Aster.

This branches freely and grows pure white flowers 4 inches in diameter on very long stems. The petals are long, and many of them somewhat twisted, giving them the appearance of graceful chrysanthemums.

Pkt. 25c, 1/4 oz. 40c, 1/2 oz. 70c, 1 oz. \$2.50.

Vaughan's Florist Mixture.

All of the best cut flower Asters, white, pink, brightest red, with a few blue and odd shades. This mixture is the strain for florists, containing only quick selling desirable shades. This is a good substitute for the higher priced separate colors.

Trade packet 25c, 1/4 oz. 60c, oz. \$3.75.

Asters, White, Mixed.

Contains all of the white flowering varieties suitable for cut blooms, and includes the Giant Comet "Snow" and the White Branching.

Pkt. 50c, 1/2 oz. 60c, 1/4 oz. \$1.00, oz. \$3.50.

FLORIST FLOWER SEEDS.

Strictly fresh new crop stock with all the latest novelties and all the standard varieties are shown in our Book for Florists, spring edition, mailed free on request. We have never yet printed an issue of this book that did not contain novelties which should be tried by every florist.

Have you used the Guillard Carnations?

VAUGHAN'S SEED STORE,

NEW YORK:
26 Barclay St.

CHICAGO:
P. O. Box 688

Mammoth Verbenas.

New, large-flowered, very fine quality.
Per Ounce, \$1.50.

CHOICE FLOWER SEEDS For Florists.

Price List free on application.

HERRMANN'S SEED STORE,

413 E. 34TH STREET,

Near Long Island Ferry, NEW YORK.

Brains and Pains

used in our catalogue work—we want you to sell goods—that helps us—we have cuts and cuteness.

J. Horace McFarland Co.

Mount Pleasant Printery,

Harrisburg, Pa.

NEW BISMARCK APPLES.

1 and 2 years old.

**CH. KOEHLER, Five Points Nursery,
Oxford Church P. O., Phila., Pa.
Mention American Florist.**

Verbenas.

What are the necessary conditions for raising healthy verbenas plants to be used as stock to take cuttings from?

SUBSCRIBER.

A new house in which verbenas or other plants have never been grown, perfectly healthy stock to start with, a good loamy soil; cool treatment, and an eye that will quickly discern the attack of any insect causing the rust, and a will to immediately throw out every such plant even though the grower thinks it might come all right; a little sulphur and oil on the pipes to keep down mildew; under these conditions we think Subscriber will have no trouble to grow the best verbenas.

J. L. DILLON.

Heating.

Referring to the inquiry of Mr. David Cliff about heating I would advise him to increase the size of the main steam pipe and the return pipe, especially where they connect with the boiler. We think this would obviate the trouble and make them work equally as well as before the old boiler was taken out. If the water should at times be higher in one boiler than in the other we would connect them on top, in front and back by a one and a half or two inch pipe; this will equalize the pressure of steam and the water in the boilers will remain stationary. A valve should be placed in each pipe so that either boiler could be run separately.

J. L. DILLON.

Bloomsburg, Pa.

Catalogues Received.

Van Zanten & Co., Hillegom, Haarlem, Holland, Dutch bulbs and flower roots; Reading Nursery, Reading, Mass., nursery stock; same, tested novelties; Wm. H. Moon Co., Morrisville, Pa., nursery stock; Max Deegen, Kostritz, Germany, roses, dahlias, etc.; Sweeney & Carter, Owensboro, Ky., chrysanthemums; W. P. Peacock, Atco, N. J., dahlias; Fort Rouge Greenhouse Co., Winnipeg, Manitoba, retail list plants and flowers.

THE AMERICAN FLORIST (\$1.00) and *Gardening* (\$2.00) together to one address for one year for \$2.50. Send orders to American Florist Co.

Eldorado, Kitty Clover

The best YELLOW CARNATIONS to grow for profit. ROOTED CUTTINGS now ready, @ \$5.00 per 100. Also 30,000 strong rooted cuttings of suitable kinds for summer bloom.

LADY CAMPBELL VIOLETS, rooted runners, @ \$1.00 per 100; \$8.00 per 1000.

W. R. SHELMIER,

Chester Co., AVONDALE, PA.

DO YOU WANT CARNATIONS?

If so, why not GROW the BEST?

50,000 ROOTED CUTTINGS, including Daybreak, Wm. Scott, Goldfinch, Lizzie Gilbert, Emily Pierson, Lizzie McGowan, Tidal Wave, S. Spray, Minze's White, &c.

Can you justify in quality and prices. Write me before you buy. Address CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

Mention American Florist

50,000 CARNATIONS

from flats, equal to pot grown. Warranted to give satisfaction. Cash with order. Per 100 Per 1000

ROSE QUEEN.....	\$5.00	\$40.00
DAYBREAK.....	1.50	12.00
WM. SCOTT.....	1.50	12.00
LIZZIE MCGOWAN.....	1.50	12.00
SILVER SPRAY.....	1.50	12.00
TIDAL WAVE.....	1.50	12.00
PORTIA.....	1.50	12.00
J. J. HARRISON.....	2.00	15.00
VIOLETS, MARIE LOUISE.....	1.00	8.00

HENRY A. NIEMEYER, Erie, Pa.

WE BOOK NOW.

Roman and Dutch Hyacinths, Paper whites, Daffodils and other Narcissus, Tulips, Freesia, Spirea, Crocus, Lilium, —Harrisii, Candidum, Longiflorum, Auratum, Calla, Lily of the Valley, etc. etc.

ORDERS FOR FALL DELIVERY

ROSES, PALMS, AZALEAS, CLEMATIS, RHODODENDRON, LAURUS TINUS, LAURUS NOBILIS, etc.

TERMS AND ESTIMATES ON APPLICATION

ADDRESS: **AUGUST RÖLKER & SONS,**
136 & 138 W. 24th St.,
ADDRESS LETTERS: STATION E.
NEW YORK.

Carnation Orders
BOOKED NOW.

Good, clean, well-rooted stock. NO RUST.

	Per 100	Per 1000
BRIDESMAID.....	\$5.00	\$40.00
METEOR.....	5.00	40.00
STORM KING.....	5.00	40.00
UNCLE JOHN.....	5.00	25.00
STUART.....	5.00	25.00
E. A. WOOD.....	5.00	25.00
GOLDFINCH.....	4.00	35.00
WM. SCOTT.....	2.50	20.00
DAZ ALBERTINI.....	5.00	25.00
DAYBREAK.....	5.00	25.00

CHRYSANTEMUMS.

	Each	Doz.	100
Mrs. W. C. Egan, new (ready March 1).....	\$.50	\$5.00	\$50.00
Tippecanoe, new (ready March 1).....	.50	5.00	35.00
Amaranth, new (ready March 1).....	.50	5.00	35.00
Mr. E. M. Bigelow.....	1.00	8.00	
Mrs. S. T. Murdock.....	1.00	8.00	
Oakland.....	1.00	8.00	
Major Bonnation and other choice older standard sorts.....	.75	5.00	

Send for descriptive trade list.

F. DORNER & SON,

LA FAYETTE, IND.

Gold Getters

AND PRIZE WINNERS.

Strong, healthy, well-rooted cuttings, from soil, of the following

Choice Carnations for Sale

BRIDESMAID	-	\$5 per 100
ELDORADO	-	5 per 100
METEOR	-	4 per 100
STORM KING	-	4 per 100

CASH WITH ORDER.

The Cut Flowers of above varieties bring the highest prices in N. Y. market.

Our Cut Carnations consigned to W. F. SHERIDAN, 32 W. 30th st., New York.
E. W. WEIMAR, Mt. Vernon, N. Y.

Only a few hundred of the
NEW WHITE CARNATION
Edith Foster,

still disengaged. We offer them at dozen and hundred rates. Over two thirds of stock already sold, has been purchased by growers within 20 miles of Boston who have either seen it growing, or sold in the market.

\$1.50 per dozen; \$10.00 per 100.

ALSO First-Class stock of

Wm. Scott, Daybreak, Alaska, Goldfinch, Minnie Cook, Crystal, E. G. Hill, and other standard vars.

Send for trade price list of

NEW AND TESTED CARNATIONS.

PETER FISHER, Ellis, Norfolk Co., Mass.

ROOTED CUTTINGS
CARNATIONS

	Per 100	Per 1000
DAYBREAK.....	\$2.00	\$15.00
WM. SCOTT.....	2.00	15.00
STORM KING.....	5.00	
METEOR.....	5.00	
PORTIA.....	1.50	12.50
TIDAL WAVE.....	1.50	12.50
BUTTERCUP.....	5.00	
MRS. FISHER.....	1.50	12.50
LIZZIE MCGOWAN.....	1.50	12.50
ANNA WEBB.....	2.00	15.00

I will give 10 per cent discount for cash with order on the above prices.

EDW. J. TAYLOR, Southport, Conn.

The Bridesmaid Carnation

is the pink carnation you want. It averages more HIGH GRADE blooms than any other pink variety grown. It has a long stiff stem, strong calyx, perfect form of flower and a color that cannot be excelled in its class. It sells quickly at a high price, and stands at the head of the list of pink carnations. It won the honors at the American Carnation Society Show at New York as best pink in classes A, B and C. Its growth is clean and healthy.

Order now to get your stock early.

No Rust, Strong Cuttings.

\$5.00 per 100, \$40.00 per 1000.

If you have not already received our list send for it.

**F. DORNER & SON,
LA FAYETTE, IND.**

The Crack Carnations:



**SCOTT, ALBERTINI,
DAYBREAK, McGOWAN.**

Selected Cuttings, well rooted in sand and soil, delivery February 15th and later, \$2.00 per 100; \$15.00 per 1000.

Send your order at once, with cash, to get these figures. . .

**ALEX. McBRIDE,
ALPLAUS, N. Y.**

CARNATIONS

	Per 100	Per 1000
OPHELIA.....	\$5.00	\$40.00
SWETBRIER.....	2.00	15.00
SCOTT.....	2.00	15.00
DAYBREAK.....	2.00	15.00
CARTLEDGE.....	2.00	15.00
PORTIA.....	1.50	12.50
McGOWAN.....	1.50	12.50
LAMBORN.....	1.50	12.50
PURITAN.....	1.50	12.50

VIOLETS. Lady Campbell, splendid, inexhaustible, \$1 per 100; \$8 per 1000.

MUMS. At \$1.50 per 100. The following: Ivory, Yellow Queen, Mutual Friend, Marie Louise, Mrs. J. George IIs, Mrs. Craig Lippincott, Mrs. E. G. Hill, and E. Dailledouze.

We can furnish other standard varieties of carnations if desired, and will fill orders now. Cash with order. Yours truly,

C. S. SWAYNE, Kennett Square, Pa.

MT PLEASANT, Iowa, 2-26, 1896.

J. J. STYER, *Dear Sir:*—The carnations bought of your have been received in good condition and they were the finest rooted cuttings I ever saw.

Very truly, J. W. THOMPSON.

10,000 PLANTS OF MRS. FISHER, rooted in October and now in beds; the best white for summer blooming, \$15 per 1000.

J. J. STYER, Concordville, Pa.

CARNATIONS

Rooted cuttings from sand and flats, now ready.

Mrs. Fisher, Wm. Scott,
Grace Wilder, Florence, Daybreak,
Per 100, \$1.25. Per 1000, \$10
CASH WITH ORDER.

A. W. HOYLE, Spencer, Mass.

IVORY CARNATION

This new white Carnation is pronounced by those who have seen it growing to be "first-class in every respect and an ideal commercial variety."

WE WILL TELL YOU SOME OF THE REASONS WHY:

1. Its **COLOR** is pure Ivory White.
2. Its **FORM** is perfect; petals nicely fringed.
3. Its **SIZE** is good, from 2½ to 3½ inches.
4. Its **HABIT** of **GROWTH** is unsurpassed.
5. Its **FRAGRANCE** is delicate and pleasing.
6. Its **CALYX** is strong, supporting flower well.
7. Its **STEM** is long, strong and wiry.
8. Its **HEALTH** and **VIGOR** are unexcelled.
9. Its **CUTTINGS** are abundant and easily rooted.
10. **LAST** and **NOT LEAST** it is so very productive that you cannot fail to have an abundant reward for your money and time if you TRY IT.

Read this letter and see what wide-awake florists think of Ivory:

GRAND RAPIDS, MICH., Feb. 17, 1896.
This is to certify that we, a committee of the Grand Rapids Florist Club, have inspected the house of Ivory grown by Geo. Hancock & Son, at Grand Haven, and find it free from disease, possessing long stiff stems, strong grower, very prolific, equal to Scott, good foliage, large sized flowers varying from two and one-half to three and one-half inches in diameter, nicely fringed, calyx shows no tendency to burst, pleasing fragrance and from its appearance is a continual bloomer. Cutting bench shows a loss of less than one per cent. Therefore, we believe it to be first-class in every respect and an ideal commercial variety.

Signed:—HENRY SMITH Pres.; GEO. F. CRABB, WM. CUNNINGHAM, Vice Pres.; N. B. STOVER, Sec'y; ALFRED HANNAH and J. A. CREELMAN.

Nice Plants of Ivory from soil \$10.00 per 100, \$75.00 per 1000.

Also nice stock of all the new and leading varieties, including Della Fox, Triumph, Jubilee, Armazinda, Abundance, Daybreak, Scott, Alaska, Goldfinch, Eldorado, &c., &c.

GEO. HANCOCK & SON,
Send for complete price list. — Grand Haven, Mich.

HERR'S CARNATIONS.

ROOTED CUTTINGS that will give good results, because they are taken from healthy stock, and will be well rooted when sent out.

VARIETIES:

McGOWAN,
STORM KING,
ALASKA,
ANNIE LONSDALE,
IVORY.

DAYBREAK,
SCOTT,
ROSE QUEEN,
PEACHBLOW,
DELLA FOX.

DORNER,
STUART,
PORTIA,
JUBILEE,
JAGO.

HELEN KELLER,
KITTY CLOVER,
ELDORADO,
CARTLEDGE,
TIDAL WAVE.

Fourteen large houses full of Carnations. State how many you will want of each variety in asking for prices.

L. B. 496. ALBERT M. HERR, LANCASTER, PA.

ELDORADO

Admitted to be the most profitable yellow carnation under cultivation by the leading growers at the New

York meeting last month.

STRONG ROOTED CUTTING, \$5.00 PER 100.

JOHN WELSH YOUNG, - - Germantown, Pa.

Carnations

Rooted Cuttings, ...

Portias, Fishers, Puritan, Scott,

Best strains seed for Market Gardeners and Florists. Price list free. **C. E. ALLEN, Brattleboro, Vt.**

75,000 Well-Rooted CARNATIONS.

CHEAP FOR CASH.

ALASKA, METEOR, BRIDESMAID, EL-DORADO, DEAN HOLE, MINNIE COOK, SCOTT, L. McGOWAN. From sand or flats. J. A. SHELLETT, 17th & Tasker St., Philadelphia.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

San Francisco.

The weather this week has been exceptionally warm. The demand in some things has been light. For instance violets are getting about over here now. Very few Californias are to be had. The warm weather is seriously affecting the quality of Marie Louise violets, the color getting very light. Swanley White are still very good. Lilac is expected to make its appearance this week, the warm weather also helping to bring it out. Good roses are in fair demand, Testouts especially being of good color now. Bridesmaids also sell well at 50 cents per dozen; Kaiserin, too, is very good. This rose seems to do very well here and is quite popular. Harrisii is of good quality and is bringing \$2 per dozen. Tulips are about over, but there is still call for them. Some sweet peas are coming along. At M. Lynch's place at Menlo Park can be seen some "Extra Early Blanche Ferry" in bloom out of doors. We believe that this is the first instance of sweet peas blooming outside by the first of March, showing that the above named variety is of exceptionally good value to florists. We think that this will be of interest to its originator, W. W. Tracy. In carnations Wm. Scott is a great favorite closely pressed by Daybreak. Portias are selling very well at 25 cents per dozen.

Luther Burbank, or, as he is called, the "Wizard of Horticulture," is hard at work at his place in Santa Rosa on some new French cannas, which he claims will surpass any of recent introduction. Another one of his novelties is a "thornless raspberry" and a white blackberry, each of which he has brought to wonderful perfection. His acres of lilies are all growing nicely and will be quite a rare sight when in bloom.

The Santa Rosa Rose Carnival is the talk of the town. Voting for the Queen of the Roses is going on quite briskly at present. Everybody is hard at work on their gardens trying to have as many flowers as possible. These flower shows or carnivals have done a great deal toward helping the trade in California. Everybody pays more attention to their gardens than heretofore, which benefits both florist and nurseryman.

Mr. Ed. Parsons, of San Jose, was in town this week. He reports business as increasing in his new store. He says the greatest demand is for carnations, the public taste running to light colors. He says Storm King is a grand flower, and expects to grow more of it next season.

Thos. Meherin, Jr., is now with the California Nursery Company at Niles.

The San Mateo County Rose Society will take its first step towards having a rose show in April this week. It is to be hoped that they will make satisfactory arrangements to do so, as the value of these shows as an educator in a floral way cannot be overestimated.

A once famous person in the trade in California, but now seldom seen or heard of is Ed Rainer, of Folsom street. Mr. Rainer is the oldest florist in California, and came here in 1849, when he established himself in business. He says that he often made over \$5,000 a month at his small place, but those days are over. He is nearly 80 years of age, but is still hale and hearty and loves his flowers. Some monuments to his handiwork are the Ralston place at Belmont and many other fine residences. He also laid out the grounds for Governor Morris's place in New York. METEOR.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Carnations of the 19th Century

ARE . . .
DELLA FOX, pink, and ANNIE H. LONSDALE, white.

Can you, as a wide-awake florist, afford to miss them? They have received more premiums than any other carnations disseminated. The time is growing short for you to place your orders. Call and see them.

"That is as fine a batch of cuttings in the cutting bench as I ever saw," was the remark of H. W. Weber, of Oakland, Md., in speaking of Della Fox and Annie H. Lonsdale, on the 13th of March.

COME AND SEE THEM.

One Hundred Dollars in Cash Premiums will be offered for the best 50 blooms of **DELLA FOX** in the fall of 1896—divided in the four largest cities in the U. S.

ROOTED CUTTINGS. Price: Less than 100, \$12.00 per 100. 100 @ \$10.00 per 100. 1000 @ \$75.00 per 1000. READY MARCH 1st, 1896. ~~45¢~~ No orders will be booked unless cash accompanies order or satisfactory reference given. ~~45¢~~ Sample cut blooms will be sent to florists' clubs only on application.

MYERS & SAMTMAN, Wyndmoor, Chestnut Hill, Phila.

Carnations, Rooted Cuttings & Mums

10,000 Scott; 5000 Hector; 5000 Daybreak, from flats, at special low prices, for strictly prime stock. It will pay you to correspond with us at once. Some varieties nearly sold out.

FROM FINE, HEALTHY STOCK PLANTS.

White—ALASKA, STORM KING, UNCLE JOHN, (no rust) MCGOWAN.

Pink—ROSE QUEEN, PEACHBLOW, ALBERTINI, SCOTT, DAYBREAK, CARTLEDGE, Etc.

Scarlet—HECTOR, PORTIA, CORSAIR.

Crimson—METEOR, PRIDE OF KENNETT.

Variegated—H. KELLER, MINNIE COOK, CHESTER PRIDE.

Yellow—DEAN HOLE, BOUTON D'OR, BUTTERCUP, Etc.

All well rooted and sure to give satisfaction. Send for price list.

ALL THE CREAM OF 'MUMS. Send for list and prices.

H. WEBER & SONS, Floral Park, Oakland, Md.

CARNATIONS

Per 100 Per 1000

ROSE QUEEN, ALASKA, MINNIE COOK, } \$5.00 \$40.00

WM. SCOTT, HELEN KELLER, THE STUART, DAYBREAK, } 2.50 20.00

THOS. CARTLEDGE, LIZZIE MCGOWAN, TIDAL WAVE, PORTIA, } 2.00 15.00

FROM FLATS,

EQUAL TO

POT GROWN.



VAUGHAN'S SEED STORE, 84 & 86 RANDOLPH STREET, CHICAGO.

**SEE
HERE!**

Did you say you need some Carnation Cuttings? If so, am sure can please you, for I have them nicely started in soil, propagated early from unfrozen stock, extra stout plants, free from all disease and positively "no rust."

Daybreak and H. Keller, \$2.00 per 100. Wm. Scott, \$2.00 per 100 \$15.00 per 1000. Portia and Wilder, \$1.25 per 100. L. McGowan, \$1.50 per 100. \$12 per 1000. McGowan from sand \$9 per 1000.

Remember this is first-class stock, every plant with good roots, as they are started in soil. Satisfaction guaranteed.

CASH WITH ORDER.
JACOB H. WEAVER,
GREENLAND, LANC. CO., PA.

Always mention the American Florist when writing to advertisers.

CARNATIONS

Orders solicited for **ROOTED CUTTINGS.**

KOHINOOR takes the lead.

Other Novelties of the Standard sorts at standard prices. All healthy and strong.

C. J. PENNOCK,
The Pines. KENNETT SQUARE, Chesler Co., PA.
Mention American Florist

CARNATIONS Rose Queen

Per 100 Per 1000
Rooted Cuttings.....\$4.00 \$30.00
Strong plants.....6.00 50.00
No Rust with us.

A. DONAGHUE, Omaha, Neb.
Mention American Florist.



Now Ready!

Xtra . . .

Well-Rooted

CARNATIONS

FOR CASH.

	1000	100
20,000 Wm. Scott, the pink money-maker	\$10.00	\$1.50
8,000 Mrs. Fisher, everybody's white	8.00	1.00
6,000 Alaska, very fine commercial white	30.00	3.50
4,000 Rose Queen, an elegant pink	25.00	3.00
2,000 Meteor, a fine beautiful crimson	30.00	3.50
2,000 Eldorado, everybody's ideal yellow	40.00	5.00
1,500 Buttercup, the old genuine yellow	35.00	4.00
Puritan, Tidal Wave, Portia & Carledge		1.50
Bella Fox, a very fine new shell pink, a great prize winner		10.00
Ivory, a very fine new pure white, closely resembles Scott in growth and bloom		10.00
Chrysanthemums M. Bergman, Bonaffon, Ivory, Nivens, Lincoln, October Beauty, Dailladonze out of pots		3.00

I study to please all and pack every order myself. I guarantee entire satisfaction and big value for the money.

Kind words will never die.

Chas. T. Siebert.

Anburn, Me.

Dear Sir:—I enclose check for rooted carnations I bought of you two years ago and you used me so well I selected you to supply my wants. Chickens come home to roost sometimes. Yours truly,

Geo. M. Roak.

Chas. T. Siebert.

Springfield, O.

Dear Sir:—Carnations were received in fine condition just as nice as when lifted from sand. I am well pleased with them. They are certainly the best rooted cuttings that I ever bought. Accept thanks for your liberal count. Yours truly

Geo. Mead.

Chas. T. Siebert,

Station B.

PITTSBURG, PA.

Established 1870.

Rooted Carnation Cuttings

THE 1896 NOVELTIES.

THE 1895 INTRODUCTIONS.

THE OLDER STANDARDS.

GOOD KINDS ONLY.

GOOD STOCK ONLY.

Apply for our 16-page Catalogue.

DAN'L B. LONG, JOBBING FLORIST

and Growers' Agent,

BUFFALO, N. Y.

CARNATIONS

Rooted Cuttings.

Perfectly clean and healthy, and will be well rooted when sent out.

Daybreak, Scott, McGowan, Puritan, Silver Spray, Tidal Wave, Portia.

Delivery Feb. 15 and later, \$1 per 100; \$8 per 1000.

Mme. Albertini, Emily Pierson,

Delivery Feb. 15 & later, \$1.50 per 100; \$10 per 1000. TERMS CASH WITH ORDER.

MAGNUSON & PEARSON,

Bowmanville, Station X, Chicago.



Seasonable Specialties

SPRING
..1896..

Raffia First quality long Madagascar, fresh consignment just arrived by the S. S. "Maine;" quality must not be confounded with the "short" stock offered in some quarters. Per pound 18 cents; per 100 pounds, \$15.00.

Mushroom Spawn The "W. P." brand, best in the world; always fresh, well spawned and reliable. \$6.50 per 100 pounds; \$3.50 per 50 pounds; \$2.00 per 25 pounds; \$1.00 per 10 pounds; 15 cents per brick; \$1.50 per dozen.

Cocoa Fibre The best material for drainage, raising seeds, etc. Per bushel, 50 cents.

The New Shipping Box for Cut Flowers

has now been a year on the market, and grows more popular every day. Extra strong for its weight, braced with cleats outside and inside; has strong brass corners; is the right size and shape for shipping or carrying long stemmed flowers. No. 1, size 36x12x6 inches, in sets of 3, per set, \$2.70; No. 2, size 30x12x6 inches, in sets of 3, \$2.55 per set.

Clay's London Fertilizer This world-famous fertilizer is indispensable to those who desire the highest perfection in their flowers, plants and vegetables. Composed of concentrated animal matter and entirely different from all chemical manures whatever. Per bag (112 pounds), \$6 00 net.

Guano—Genuine "Lobos" Imported from South America; offered in the original bags; no manipulation. Per ton, \$50 00; per lb (in less than 5-bag lots), 3 cts. Bags run from 170 to 200 lbs. each.

Gloxinia Bulbs Imported bulbs, very choice strain, embracing many rare and beautiful colors; large size and grand substance. I can recommend these as being extra fine. \$5.00 per 100.

Begonia Bulbs Grand importation of dormant tubers for Spring delivery from the best grower in Europe. No garden is complete without these magnificent new flowering bulbs, which entirely eclipse the geranium in brilliancy of bloom. \$3.00 per 100.

Lily Bulbs from Japan These are from the same reliable grower as heretofore, and can be thoroughly depended on. The cases are repacked on arrival and every bulb guaranteed sound. I offer these with every confidence, and know they will give good satisfaction. Note especially my very low prices for repacked and guaranteed bulbs. Auratum, \$4 00 per 100; Rubrum and Roseum, \$6.00 per 100; Album, \$8 50 per 100.

Other Spring Bulbs The cream of the new Cannas, choice named and mixed Gladioli, Tuberoses, Caladiums, Amaryllises, Dahlias, Montbretias, Paeonies, Tigridias, and other Spring Bulbs. Choice assortment at reasonable figures

Lawn Grass, Flower Seeds, Best quality at lowest rates.

SEND FOR PRICE LIST.

G.C. WATSON

IMPORTER OF
BULBS FOR FLORISTS
FANCY GRASS SEEDS
FIELD & GARDEN SEEDS
FLORISTS' FLOWER SEEDS

WHOLESALE SEEDSMAN
AND COMMISSION
MERCHANT

43 North 10th St.
PHILADELPHIA, PA. U.S.

California Grown FLOWER SEEDS.

INGLESIDE NURSERIES,

F. EDWARD GRAY, Proprietor,
ALHAMBRA, CALIFORNIA.

I have a small surplus of 1895 grown seed, such as Sweet Peas, Cosmos, Petunia, Chrysanthemum, Zinnia, Aster, Mignonette, Canna, Coreopsis, Gypsophila, etc.

Send for list and prices.

CYCAS REVOLUTA.

Orders booked now for fresh imported stems, fronds and roots cut off; best long-leaved variety. Delivery from March 1st. Cultivated Cycas always on hand, rooted and well established, at low prices.

Lil. Auratum, Spec. Rubrum and Album, Etc. Iris Kämpferi, in 100 choice varieties. Japanese Maples, in best varieties. Camellias, Paeonies, Tree Ferns, Rhapis, Etc. Araucaria excelsa, choice cultivated stock at lowest prices.

For general Japanese stock apply to

F. Gonzalez & Co.

303 to 312 Wayne St., SAN FRANCISCO, CAL.

Rochester, N. Y.

Owing to unfavorable and cold weather the trade report of the past week can not be set down as very satisfactory, though, as the supply has not been over-abundant, not many of the cut flowers spoiled in the hands of the dealers, excepting, however, the unproportionate mass of bulbous stuff. Roses are improving steadily in size and color. Mrs. P. Morgan continues to sell well at the ordinary figures, retailing at the same price as good stock of other roses, from \$1.50 to \$2.50 per doz. Carnations are sold at all prices according to quality, common stock as low as 25 cents per dozen, and from that up to 75 cents for selected Daybreaks, Scotts and Helen Kellers. Violets are getting somewhat scarcer in the market, and retail at 75 cents to \$1.00 per 100. The plant trade is on the increase, a large variety is seen in all the stores; azaleas, however, take the lead and are very plentifully exhibited in good condition. Easter stock is backward in some establishments, especially is this the case with longiflorum, but it is hoped that the weather from now on will be more moderate, and a little extra heat assisted by the brighter days we may expect in the second half of this month will bring them out in time for Easter. Plant decorations are now called for principally on occasions of spring openings in our large dry good stores, but the safe transportation of very large decorative plants in such cold weather as we have had here, is only managed with the utmost care and difficulty.

A goodly number of the inevitable Holland bulb agents have been calling at the numerous establishments in town, among them were Mr. J. Speelman of C. J. Speelman & Sons, Herm. C. Baartman, K. Wezelenburg, M. Von Waveren & Sons, M. Veldhuyzen van Zanten, Van Zanten Brothers and others. Most of them find it rather difficult to obtain many orders as early in the season as this, and have to be contented with a promise to buy later on.

Keller Sons have moved into their new store at 25 North Clinton street, and opened up with a very creditable exhibition of spring flowers and other blooming plants. Both of the show windows were banked solidly with bulbs and valley in boxes or pans, interspersed with patches of spiraea, lilies, cinerarias, azaleas, genistas, acacias and cyclamen, while the space above them was handsomely festooned with long strings of asparagus, among which masses of Dendrobium Wardianum, D. nobile and cattleyas were suspended and showed off to advantage. One side of the store was devoted to larger plants of genista, azaleas, lilies, palms and foliage plants of various descriptions. Noticable among the plants exhibited were two large pans of Coelogyne cristata over two feet across, and profusely covered with bloom, also an extra large sized Cypripedium Boxallii with several dozen flowers. The display of cut flower on the other side of the store was very tasty and invitingly arranged, as also was the large ice-box with plate glass front, containing immense bunches of Beauty and other roses. In the evening the effect of the numerous incandescent lights, distributed all along the sides and ceiling of the store on the gay mass of bloom and green against the clear soft tint of walls and furnishing is very pleasing and was admired by every caller.

The polite Hollanders are beginning their operations early this season, several of them have been in town soliciting orders for bulbs, etc.

J. B. K.

BARR THE FLORIST
THE SECRET
... OF ...
OUR SUCCESS

AND EVER-INCREASING SALES IS OUR NEVER-TIRING EFFORT TO PLEASE OUR MANY CUSTOMERS.

IN TIME OF WAR
SHOOT THE OPPORTUNITY
GRASP AND TAKE
ADVANTAGE OF OUR
SPECIAL PRICE LIST.

200 000 Transplanted Carnation Cuttings.

	PER 100.	PER 1,000.	
Wm. Scott.....	\$1.50	\$12.00	Rooted
Helen Keller.....	1.50	12.00	cuttings
Lizzie McGowan.....	1.50	12.00	of
Daybreak.....	1.50	12.00	same
Thos. Cartledge.....	1.50	12.00	varieties
The Stuart, from sand.....	1.50	12.00	20
Eldorado, from sand.....	5.00		per cent
Alaska, from sand.....	3.00		discount.

These Plants and Cuttings are
Free From Rust or Disease.

Send 10 cents in stamps and get an Honest Sample.

CHRY.S. ROOTED CUTTINGS
Cheap, to make room—only \$1.50 per 100.

VIVIAND MOREL, PRES. W. R. SMITH, ADA SPAULDING, LILLIAN BIRD, and EDA PRASS (Pink).
MINNIE WANAMAKER, JESSICA, and MRS. GEO. BULLOCK (White).
KIOTO, MAJOR BONNAFFON, and WM. LINCOLN (Yellow).
GEO. W. CHILDS (Red).

TERMS—CASH WITH ORDER, PLEASE.

B. F. BARR,
Cottage Place, LANCASTER, PENNSYLVANIA.



The Best New CANNAS, 10 for \$2

3½ INCH POT PLANTS, WELL ESTABLISHED.

	Each.	per doz
Mad. Alphonse Bouvier	50c.	\$5 00
Chicago	25c.	2 25
M. Mesnier	25c.	2 25
Leonard Vaughn	35c.	4 00
Midway	25c.	2 25
Octave Mabeau	25c.	2 25
Gen. Dadds	20c.	2 00
Bronze Beauty	20c.	2 00
Queen Charlotte	20c.	2 00

One of each (with Blanc's New White), 10 for \$2.00.

POSITIVELY THE BEST.

STANDARD CANNAS.

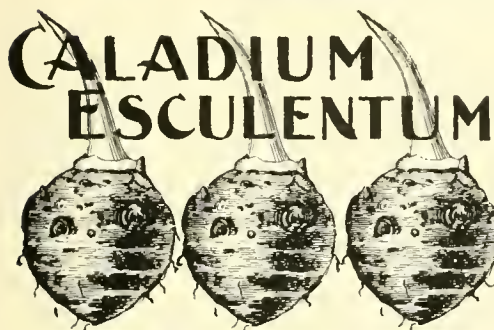
We carry these dormant, 2½ inch, and in 3½ inch pots, and meet any prices. Send us your Canna orders, mentioning prices quoted by others, and we will meet the rates, while stock lasts. We will not be undersold, quality considered.

Egundale.
Exp. Crampel.
Florence Vaughan.
Francoise Maitre.
Gen. Baron Berge.
Geo. W. Childs.
J. D. Cabos.
J. C. Vaughan.
J. Wilkinson Elliott.

Marquis Arthur de L' Aigle.
Miss Sarah Hill.
Mme. Crozy.
P. J. Berckmans.
Paul Marquant.
Paul Bruant.
Pres. Cleveland.
Prof. Gerard.
Sec'y Stewart.

Sec'y Nicolas.
Sophie Buchner.
Ventura.
Chas. Henderson.
Mixed Yellow Shades.
Mixed Red Shades.
Mixed Variegated Shades.
Mixed Bronze Leaved Sorts.
Mixed All Colors.

CANNA SEED, Saved from Novelty Sorts at Western Springs, per packet (20 seeds), 25c.



Live Center Shoots, —No Rot...

DIAMETER IN INCHES.

	1½ and 2½	2½ and 3	3 and 4	4 and 6
IN NEW YORK, per 100	\$2.25	\$4.50	\$8.00	\$13.50
IN CHICAGO, per 100	2.50	5.00	9.00	15.00

Tuberose

TRUE EXCELSIOR PEARL.

(Hallock Strain.)

Scarce, but we have them.

FIRST SIZE

Per 1000

\$9.00

MEDIUMS

\$4.50

LILIUM HARRISII, the best from the Island.

ROSES, GLEMATIS AND GREENHOUSE STOCK.

ROSES	2 in. per 100	2½ in. per 100
Clothilde Soupert.	\$3 00	\$4 00
Pink.	4 00	6 00
Princess Bonnie.	8 00	10 00
Dunmore.	6 00	5 00
Sunset.	5 00	5 00
Hermosa, Dormant, Select, per 100.	\$5.00; 200	
for \$9.50; per 1000.	\$45.00.	
Dormant H. P.'s, budded, fine clean 2 year old stock, of all the leading varieties, per 100.	\$10.00.	

CLEMATIS—Fine stock of Jackman, Henry, Miss Bateman, Gypsy Queen, Superba, Duchess of Edinburgh and Fairy Queen; 2 year old, per doz., \$3.75; per 100, \$27.50; 3 year old, per doz., \$4.80; per 100, \$38.00.

COLEUS—Mrs. F. Sander, per doz., 75c.; per 100, \$5.00.

CALLA—Little Gem, 2-inch, per 100, \$5.00; 2½-inch, per 100, \$7.00.

CALIFORNIA VIOLETS—Rooted runners, extra strong, \$1.50 per 100; 2½-inch pots strong, per 100, \$5.00.

STROBILANTHES DYERIANUS—2½-inch strong, doz., 50c.; per 100, \$4.00.

SWAINSONA GALEGIFOLIA ALBA—2½-inch, per 100, \$5.00; 3 inch, strong, \$8.00.

ADIANTUM FARLEYENSE

We have devoted two large houses to this Fern and can supply in large quantities of all sizes.

	Per 100	5-inch extra choice	Doz
2 -inch, pots	\$10.00	\$12.00	
2½ " " "	15.00	6 " "	18.00
3 " " "	25.00	7 " "	25.00
4 " " "	50.00	8 " "	36.00

MIXED FERNS FOR FLORISTS' USE.
\$5.00 per 100; \$40 00 per 1000.

SELAGINELLA EMILIANA—The finest of the Selaginellas. We are headquarters for this. Per doz., 75c.; per 100, \$5.00.

CARNATIONS.

	Per 100	Per 1000	
Rose Queen.			
Alaska.	\$5.00	\$40.00	
Minnie Cook.			FROM FLATS.
Wm. Scott.			
Helen Keller.	2.50	20.00	EQUAL TO
Daybreak.			
Thos. Cardledge.			POT GROWN.
Lizzie McGowan.			
Tidal Wave.	2.00	15.00	
Portia.			

NEW YORK:
26 Barclay Street.

VAUGHAN'S SEED STORE,

CHICAGO:
84 & 86 Randolph Street

Brampton, Ont.

With the thermometer way below zero, accompanied by a stiff blow from the northwest, a country tramp is hardly appreciated, but the trip I made to Harry Dale is worth this and much more if but to see his 600-foot house. It is a fine piece of construction, light but strong, with cement walks through center and on outsides presenting a clean and durable path. This house, built to complete a range, while protecting the others, has a full exposure to the northwest, but at the coldest end there is not the slightest difference in the growth of stock; in fact Mr. Dale believes it is just as easy to run a house a mile long at an even temperature as one 100 feet long. He has demonstrated it by the magnificent roses he is cutting, chiefly Bridesmaids and Sunsets. In heating three rows of 1 1/4 inch piping is used on either side, with one 2-inch steam pipe which is also utilized for steaming tobacco.

Among the older kinds, Hoste and Wootton continue in favor, and are grown extensively and well. Meteor has superseded Jacks; in fact as grown here it would require an expert to tell them apart, judging by color alone. Of the newer varieties Mrs. Whitney is well liked, one bench grown for trial has given satisfaction, and more will be planted next season. Belle Siebrecht has not taken so well as anticipated, but as grown here it shows up well. It is alleged the color is hard to match.

In a lean-to erected last summer 200x10 feet, a fine lot of hybrids in boxes are in splendid shape for Easter. In the propagating house some 60,000 young stock, chiefly Teas, are in sand-bed, covered by an excellent method of shading, it is muslin attached by rings sliding on wire rods stretched crossways, very simple and effective.

In carnations Scott is great and Daybreak greater, while the newer kinds are watched with interest. Mr. Dale will not go back on a good thing when he knows he has it. Allen's Defiance mignonne is one of the best investments he ever made, an old rose house planted this season has given large returns, and now the second crop, which all know is not so good as first, is very satisfactory. The system of support used is by running strong wires lengthwise, then threading string crosswise diamond shape; it does away with tying and as the plant heads it pushes its way through and there it is to stay until cut.

Snow Crest daisy is another good thing and deserves pushing along, it is bringing 40 cents per 100 and sells well. M. Louise violets are very good, especially a bench planted after 'mums were taken out and that were grown in pots, although better returns are given from those that were planted out of doors.

I noticed a pretty lot of fern dishes made up for store sales, which struck me as being a good idea. The plants are put in earthen pans and kept in a low temperature so that the loss is practically nil, moreover the plants have that deep glossy foliage unobtainable in high temperature. The pans were made up very artistically which is a great factor in their disposal.

M.

Bulbous Begonias.

LAING'S STRAIN. In separate colors.

Lilium Longiflorum, Tuberoses, Spiræas, etc. Now on hand.

Ask for prices.

HULSEBOSCH BROS., Englewood, N. J.

AZALEAS FOR EASTER

BEST VALUE FOR THE MONEY.

We have an exceptionally fine stock of well-shaped and well-budded plants, consisting of the best marketable varieties, which we can furnish showing color, for immediate delivery, or in bud, which can be kept back for Easter. We are offering them at the following exceedingly low prices:

	Per doz.	Per 100.		Per doz.	Per 100.
12 to 14-inch	\$ 9 00	\$ 70 00	18 to 20-inch	\$50 00	\$225 00
16 to 18-inch	22 00	170 00	20 to 24-inch	\$3 each...	3 00

OTHER SPECIALTIES:

PALMS

FOR GROWING ON.

ARECA LUTESCENS—5-in. pots, 20-22 inches high, bushy, \$9 per doz., \$75 per 100.
 ARECA LUTESCENS—6-in. pots, 22-24 inches high, bushy, \$12 per doz., \$100 per 100.
 KENTIA BELMOREANA—2-in. pots, \$2 per dozen, \$15 per 100.
 KENTIA BELMOREANA—4-in. pots, 12-14 inches high, 4-6 leaves, \$6.50 per doz., \$50 per 100.
 KENTIA FORSTERIANA—2-in. pots, \$12 per 100.
 KENTIA FORSTERIANA—4-in. pots, 15-18 inches high, \$4.50 per doz., \$35 per 100.
 KENTIA FORSTERIANA—5-in. pots, 24-30 inches high, 5 leaves, \$12 per doz., \$100 per 100.
 LATANIA BORBONICA—2-in. pots, 75 cts. per doz., \$5 per 100.
 LATANIA BORBONICA—4-in. pots, \$1.25 per doz., \$10 per 100.
 LATANIA BORBONICA—5-in. pots, 12-15 inches high, \$3 per doz., \$25 per 100.
 LATANIA BORBONICA—6-in. pots, 15-18 inches high, \$6 per doz., \$50 per 100.
 PHOENIX CANARIENSIS—2-in. pots, \$1 per doz., \$8 per 100.
 PHOENIX FARINIFERA—2-in. pots, \$1 per doz., \$8 per 100.
 PHOENIX PALUDOSA—2-in. pots, \$1 per doz., \$8 per 100.
 PHOENIX PUMILA—2-in. pots, \$1 per doz., \$8 per 100.
 PHOENIX RECLINATA—2-in. pots, \$1 per doz., \$8 per 100.
 PHOENIX RECLINATA—5-in. pots, 15 inches high, \$6 per doz., \$50 per 100.
 PHOENIX RECLINATA—6-in. pots, 18 inches high, \$7.50 per doz., \$60 per 100.

Hardy Herbaceous Plants

\$50 per Thousand.

offer will not appear again, and anyone wishing to avail themselves of this opportunity to secure a stock of these popular plants should send in their orders at once, so that plants can be reserved for spring shipment. WE GUARANTEE FIRST-CLASS STOCK IN EVERY CASE.

CHRYSANTEMUMS in the best standard varieties for Florists' use, our selection \$4 per 100.

Lilium Harrisii

We Control a Large Portion of the
BERMUDA CROP.

Bulbs Guaranteed

IF YOU WOULD SAVE MONEY, send us a list of your requirements by first mail. Prices will be quoted on GUARANTEED QUALITY STOCK. In most cases LOWER THAN EVER before. We are headquarters for LILIAM HARRISII, ROMANS, HYACINTHS, NARCISSUS, TULIPS and every bulb used by the live florist. Prices and stock will speak for themselves.

PITCHER & MANDA,

SHORT HILLS, N. J.



WATER LILIES.

PANIC PRICES.

The largest and finest stock in America. Write for lowest estimate on whatever you need. Catalogue free. Nymphaea Speciosa (Erythranthus Lotus), per 100, \$3 to \$35; Nymphaea Luteum (American Lotus), \$25 to \$30; Nymphaea Alba Candidissima, \$37.50; Nymphaea Mar. Chromacea Alba Candidissima, \$37.50; Nymphaea Odorata, Od. Gigantea, Od. Minor, \$8; Nymphaea Flava, \$12.50; Nymphaea Zandbarensis var. lutescens, \$37.50; Water Hyacinth, \$3; Water Poppy, \$6.50.

CLAY B. MOULDER,
SMITH'S GROVE, KY.

PANSIES.

Transplanted, by mail 60c per 100; by express \$4.00 per 1000.
 Larger, fine plants, twice transplanted, 75c per 100 by mail; \$6.00 per 1000 by express.

CARNATIONS Scott, McGowan, Daybreak, Portia, transplanted in soil, \$1.00 per 100; \$10.00 per 1000.

E. FRYER, Railroad Ave. & Hill St., Brooklyn, N. Y.

INCREASE YOUR PROFITS

10 TO 25 PER CENT

by placing your order for Fall Bulbs with us now.

Many Special Inducements

are being offered by us this season on all orders placed before

MAY 1, 1896.

ABUTILON SOUV. DE BONN, 2-in. pots, strong, 60c doz.
 SWAINSONA ALBA, 2-inch pots, 50c per doz.
 CHRYSANTEMUMS. Weldersheim, Bonaffon, Mand Dean, Dailledouze, Boelmer, Lincoln, Golden Wedding, Chilla, Waban, Chlids and 40 other fine varieties; 2-in. pots, very strong, not more than 4 of a kind, 25 plants for \$1.
 ANTIRRHINUM MAJIS ALBA, 2-in. pots, strong, some show buds, 35c per doz., \$2.10 per 100.
 GERANIUMS, FINE VARIETIES, mixed, 2 1/2 and 2-inch pots, \$2 per 100.
 DRACENA INDIVISA, 2 year, very strong, 25c, \$2.25 doz.
 THUSCUS SIXENSIS, 4-in. pots, strong, 15c, \$1.50 a doz.
 MARGUERITES, large flowered, 2 1/2 in. pots, \$2.50 100.
 GENISTA RACEMOSA extra fine large plants, 3 feet high, full of buds and bloom yellow, fine for Easter, 10c, \$5.00 a doz.; small plants, 3-in. pots, 20c, \$2 a doz. Cash—by Express.

GEO. M. BRINKERHOFF, Springfield, Ill.

We devote our whole attention to

DAHLIAS

WM. AGNEW.—New Cactus Dahlia of 1896; deep, glowing crimson-scarlet, clear and bright; 6 to 7 inches in diameter; deep and full to center, with beautifully twisted petals. 40c each, \$3.50 per 12. Send for descriptive Novelty list.

W. P. PEACOCK, Atco, N. J.

SPECIALTIES. The Cottage Gardens. SPECIALTIES.

Fine Cannas, Carnations and Chrysanthemums....

100,000 CANNAS.

Chas. Henderson	\$3.00 per 100	\$25.00 per 1000
Alp. Bouvier	2 50 per 100	20 00 per 1000
Geo. St. Hilaire.....	2.50 per 100	20.00 per 1000
Mme. Crozy	3 00 per 100	25 00 per 1000
Queen Charlotte.....	7 00 per 100	(Stock Limited)
Ehemanni.....	6.00 per 100	
Other Sorts	\$3.00 to 6.00 per 100	

The new Carnation **ABUNDANCE** is well named.—A Bright Carmine Pink with a scarlet shading at times. A most abundant and constant bloomer both in winter and summer. The flowers are large and full, borne on good stems 12 to 14-inches long. Habit dwarf and an upright grower. Foliage clean, firm and showing the least trace of all fungus diseases of any sort we have seen this year; cuttings strike freely. Distinctively a **bread and butter** carnation and particularly valuable to retail florists who grow their own carnations, as with Abundance, you can have plenty of flowers all the while.

Rooted Cuttings, grown from our own stock, \$1.50 per doz., \$10 per 100, \$75 per 1000 (stock limited).

Abundance is just the thing for side benches.

STANDARD CARNATIONS.

Pinks All selected stock.

Wm. Scott.....	\$2 00 per 100	\$15.00 per 1000
Wm. Scott (flats).....	2.50 per 100	20.00 per 1000
Bridesmaid.....	5.00 per 100	40.00 per 1000
Triumph.....	10.00 per 100	75.00 per 1000
Daybreak.....	2 50 per 100	20 00 per 1000
Abertin.....	3 00 per 100	

Whites

Storm King.....	5.00 per 100	40 00 per 1000 from flats
McGowan.....	2.00 per 100	15 00 per 1000 from flats
Ethel (new).....	5.00 per 100	
Ivory (new).....	10 00 per 100	

Reds

Meteor.....	5 00 per 100	40 00 per 1000
Portia.....	2.00 per 100	15.00 per 1000

Variegated

Heien Keller.....	3 00 per 100	
Armazindy.....	10 00 per 100	

Yellow

Eldorado.....	5 00 per 100	
Kitty Clover.....	5 00 per 100	
Goldfrench.....	5.00 per 100	

In **Chrysanthemums** we offer a fine stock of the new **Pink Sport from Ivory**, Miss Agnes L. Dalskov at the special low price of 15 cents each, \$1.50 per dozen, \$4 per 50, \$6 per 100, also **The Cream** of the introductions for this year.

Mrs. W. C. Egan, Mrs. Perrin, Invincible, Nanshon, Red Warrior, Marion Cleveland, Clarence, Mrs. R. Crawford, Signal Light, Midnight, Liberty and Mrs. T. D. Hatfield at 50 cents each; Mrs. Simpson and New York at 60 cents each.

Phryne, Jessie Whitcomb, Rena Dula, Pride of Castlewood, Daydawn, Riverside, Sybil Kaye, J. R. Keim, Violet King, Headlight, Adelaide Loomis, Mrs. H. H. Battles and Columbine at 35 cents each.

If you wish to grow the **Newest, very late Chrysanthemums**, plant Invincible, Mrs. R. Crawford, Mrs. H. H. Battles (the latest of all), for white; Liberty for yellow and Indiana for pink.

STANDARD SORTS—Mrs. Bergman, Yellow Queen, Ivory, Marion Henderson, Mayflower, Bonaffon, The Queen, Wana-maker, Niveus, Lincoln, Dailledouze and V. Morel at \$4 per 100. Our stock is grown in light houses and is not crowded. It is strong, clean and vigorous, and every thing thoroughly well rooted. We do not send out stubs and spindles to be counted as plants. Orders by wire from responsible firms will receive prompt attention.

THE COTTAGE GARDENS.

C. W. WARD, Manager.

QUEENS, L. I., N. Y.

GERANIUMS AND CARNATIONS.

Rooted Cuttings.

GERANIUMS—Double and single, for bedding purposes, choice colors, per 100 \$1.50, labelled.

CARNATIONS—The standard white varieties, McGowan and Mrs. Fisher, at \$1.25 per 100 transplanted in flats, or \$1.00 per 100 from the sand.

Good, healthy stock, true to name.

Make all Money Orders payable to Lancaster, Pa.

Address **H. B. WEAVER & BRO.,**

Wheatland Mills, Lanc. Co., Pa.

CLEMATIS.

Two years, all large flowering, choice named, leading kinds.....	Doz. 100	\$2.50 \$20.00
H. P. Roses, 2 years, 4-inch pots.....	1.50	10.00
Paeonies, named in 10 choice sorts.....	1.25	8.00
Daisies, Dbl. Eng. Snowcrest, Snowflake.....	.50	1.00
Smilax, strong plants, one year.....	.50	3.00

F. A. BALLER, BLOOMINGTON, ILL.

FOR SALE 30,000 BULBS AMARYLLIS FORMOSISSIMA, in 3 sizes, 8 to 11 in., 5 to 8 in. and under 5 in., cheap for quick delivery.

MEXICAN PLANT CO., Maravatio, Mexico.

SUGAR MAPLE TREES.

Well rooted trees, 10 in. to 4 feet.	\$4 00 to \$15 00
Ohmer Blackberry plants, from root cuttings.	25 00
root cuttings, 10 000, \$40 00, 5 00	
Loudon, best red Raspberry, \$5 to \$12 per 100.	
root cuttings 10 000, \$75, 10 00	
Kansas Raspberry tips.	10 00
Gladiolus, Lemoine's Hybrid, choice named	6 00
" " all colors mixed	4 00
Double Tiger Li' No. 1	\$2 per 100
Cinnamon Vine 1st size \$15, 2d size	10 00
Oxalis, 4 choice bedding varieties, mixed.	.75
Rose Wichu-aiana, Japan trailing, 2 1/2-inch pots	\$2 per 100
strong, 2 years	\$10
5,000 Pansies, in choice named varieties; none better, none cheaper. List free.	

E. Y. TEAS, Irvington, Ind.

PANSIES.

Strong plants in bloom, ready April 1st to June, \$2.00 to \$2.50 per 100. A few thousand small plants yet, at \$1.00 per 1000. All from cold frames; from my own and Roemer's select strains. Cash or C. O. D.

W. J. ENGLE, Box 211, Dayton, O.



I HAVE A FINE STOCK OF Pears, Apples, Cherries, Peaches, Quinces, Plums, Apricots, Asparagus, Strawberry Plants, Etc.

1000 Elms, 14 to 18 feet, 2 1/2 to 3 1/2 inch diameter.
 4000 Elms, extra fine 8 to 14 feet.
 1000 Sugar Maples, 8 to 10 feet.
 6000 Norway Maples, 6 to 9 feet.
 5000 Scarlet Maples, 9 to 12 feet.
 4000 Lindens, 8 to 11 feet.
 400 Golden Oak, fine, 7 to 9 feet.
 1200 Purple and Copper Beech 3 to 8 feet.
 300 White Fringe, xx, 3 to 8 feet.
 300 Blood-leaved Maple, 5 to 8 feet.
 200 Horse Chestnuts, 6 to 9 feet.
 10000 Evergreens, 3 to 10 feet.
 3000 Blue spruce, 2 to 6 feet.
 10000 Shrubs x strong
 5000 Wistaria, Clematis, Honeysuckles and Ampelopsis Veltchii.
 3000 Hydrangeas 2 to 4 feet.
 15000 California Privet, 2 to 3 and 4 feet.
 15000 Hardy Roses, xxx, 2 to 3 and 4 feet.
 2000 Sta. Pears, xxx, 7 to 10 feet, bearing trees.
 2000 Rhododendrons and azaleas, x strong.
 Supts. of Parks, Florists, and Landscape Architects wanting trees for customers should call on me or write. Two Express Cos.: Steamboats to New York City.
 S. CRANE, Prop. NORWICH NURSERIES, Norwich, Ct.

Cincinnati.

The rose meeting of March 14 was the most attractive meeting this year. The exhibition of roses and carnations brought out the best growers of this vicinity. The rose display was the center of attraction, and as these shows are open to the general public many favorable comments were passed upon them by the ladies. One vase of Bride roses from H. L. Sunderbruch's was magnificent, and I doubt whether this rose was ever shown in better shape. A vase of the old favorite Marechal Niel from Fred Walz was also well done. In carnations a vase of 100 Emma Wocher from Rich. Witterstaetter caught the eyes of every visitor.

The show was pronounced a grand success. The following are those to whom certificates were awarded: J. Freis, Mermet rose and Albertini carnation; Wm. Murphy, Stuart, Bridesmaid and Portia carnations; Magrie & George, narcissus and hyacinths; J. Gouger, callas and geraniums; Hofmeister Floral Company, Perles Jardins; Thomas Jackson, callas, Silver Spray and Uncle John carnations; W. F. Law, Shelbyville, Ind., pot hyacinths; H. L. Sunderbruch, Daybreak and Scott carnations, roses Beauty, Morgan, Bride, Bridesmaid and Meteor; Huntsman Floral Company, Mme. Cusin roses, Harrisii lily and Emma Wocher carnation; Fred Walz, two certificates for scarlet carnation, seedlings, and Niel rose. There were sixty-four entries made.

In the evening the regular monthly meeting was called to order by President Gillett. Mr. H. L. Sunderbruch gave us a short talk on what he has seen at the New York carnation show. We had the pleasure of having with us Mr. Warder, superintendent of our city parks, also Mr. Theo. Bock of Hamilton. No special business was transacted and the meeting adjourned. The meeting, as usual here of late, was well attended, and it affords me pleasure to report that there is more enthusiasm shown among the members than ever before, and from all indications I may predict that if the boys will cling to the old proverb, "United we stand," at the end of the year success will crown our efforts.

Business of late has been moving along slowly, with nothing in particular to report, consequently prices have dropped considerably. There was a decided drop in temperature on the 11th and 12th inst.; on Thursday last the thermometer recorded 4° above zero.

One of Mr. C. C. Murphy's boilers burst during this cold snap. To him it was a memorable night, and he had to move out his cooking stove to keep the frost out of two houses until it was repaired. Chris. thinks it funny that such accidents will always happen at night.

Emma Wocher carnation will be sent out this spring instead of next spring, as stated in issue of March 7.

Mr. Albert Bruner has our sympathy in the loss of a bright little boy of 5.

H. SCHWARZ.

PANSIES.

Grown from superior seed. Per 100 Per 1000
Large transplanted plants \$.60 \$ 4.50
MAMMOTH VERBENAS 70 5.50
SMILAX, 2½-inch 1.00 7.00
NEW CALIFORNIA VIOLET—Rooted
Runners 1.00 8.00
AZALEA INDICA, 13 to 16-inch, full of buds, etc. each.
These plants are ready to be delivered at once.

S. WHITTON & SONS, Wholesale Florists,

City and Green Sts., UTICA, N. Y.

When writing mention the AMERICAN FLORIST

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

GOOD STOCK.

Acalypha Macafeeana strong 2½-in.	Per 100
Achyranthes, Lindenii, Gibsonii, and	\$ 8.00
Aurea Reticulata	3.00
Alternanthera, Aurea Nana, Amabilis,	
P. Major, from flats	1.25
Anthericum Vittatum Variegatum, 4-in pots	
\$5.00; 5-in. pots	10.00
Aralia Papyrifera	15.00
Begonias, assorted flowering, best sorts	4.00
" Marguerita, 3-inch strong	4.00
" Vernon 2½ inch	3.50
Caunas, Crozy seedlings, dry roots	2.00
Alphonse Bouvier, 3 and 4 inch pots	3.50
Capt. P. de Suzoni, 3 and 4 in.	3.50
Chas. Henderson, " " "	5.00
Explorateur Crampel, " " "	5.00
Floreuse Vaughan, " " "	5.00
Mme. Crozy, from pots after April 1, '96	3.00
Professor (new) dark foliage, 3 and 4 inch pots, 3c each; per doz., \$3.70	20.00
Sarah Hill, 3 and 4 inch pots	5.00
Chrysanthemums, fine assorted, our selection 2½-inch pots	2.50
Coccoloba Platyclada, 2½-inch pots	2.50
Coleus, Golden Crown, Golden Bedder,	

Firebrand, Verschaffeltii, Ariel,	Per 100
Empress of Indra, &c., 2½-in. pots	2.00
Cuphea Platycentra, 2½ inch pots	2.50
Echeveria Secunda (Glaucia)	4.00
Fuchsia, in assortment	2.50
Geraniums, Grant, Heteranthe, Bruant, &c., 2½-inch pots	4.00

N. B.—All fine stock, strong and ready for a 3 or 4 inch shift. We have all leading varieties.

German Ivy, 2½ and 3-inch pots	2.50
Heliotrope, standard sorts, 2½-inch pots	2.50
Maranta Bicolor, 3-inch pots	4.00
Moon Vines, 2½-inch pots	4.00
Pilea Serpyllifolia 2½-inch pots	2.00
Smilax, from flats	.75
Strobilanthes Dyerianus, 2½-inch pots	4.00
Swainsona Galegifolia Alba, strong 2½-in. pots	2.50
Swainsona Galegifolia Alba, extra 6-inch pots \$2.50	20.00
Vinca, Alba, Alba Pura, and Rosea, from flats	1.00

N. B.—Rooted cuttings of Coleus, &c. Prices on application.

The above stock is in fine order and will surely please you. Orders amounting to \$5.00 and over, F. O. B. at New York City. Cash with order, or C. O. D.

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OYSTER BAY, QUEENS CO., N. Y.

JAS. C. CLARK SUPERINTENDENT.

P. O. BOX 34.

WM. L. SWAN, PROPRIETOR

PINK IVORY.

Strong, healthy plants, \$1.50 doz.; \$4 per 50; \$6 per 100

Most complete collection of Chrysanthemums and Cannas at lowest prices.

Begonias, \$2.00 per 100, Red, Pink, Yellow or White.

100 PLANTS ASSORTED, CUSTOMER'S SELECTION, \$4.00.

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STRONG, HEALTHY PLANTS; NO ROOTED RUBBISH.

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WAKE UP! WAKE UP! WAKE UP!

Get on your glasses: see what FELTHOUSEN, the Cactus specialist, has to say for himself. We are now booking orders for May delivery out of 2½ inch pot at \$5 per 1,000; 500 at per 1,000 rates, your selection. Remember our Gold n Queen is the queen of all the yellows. For immediate delivery

	1000.	100
A few thousand Vinca Var., 2½-in. pots	\$2.50	\$2.50
Mme. Sallier Geranium	12.00	1.50
Upper Plat-centra (Pigur Plant)	8.00	1.00
Few-few, Little Gem	10.00	1.50
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Alternanthera paronychioides, major, aurea, nana	6.00	.75

The above are in flats in fine condition.

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Golden Queen, the only all-round yellow	
Coleus and crimson Verschaffeltii	6.00 .75
Coleus in variety	5.00 .60
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Double Golden Marguerite	12.00 1.00
Ageratum	8.00 1.00

The selection of sorts to remain with us.

CASH WITH THE ORDER.

J. E. FELTHOUSEN, Schenectady, N. Y.

GLADIOLUS.

If you would have the best, buy GARDNER'S H-BRID AMERICAN SEEDLINGS, strong growers, large spikes, flowers of large size and good substance, range in color from pure white to dark maroon, mostly light. Price by express \$1 per 100; \$6 per 1000. First and second, one inch and up, mixed lemon, \$4.50 per 1000. Same size Gladiolus Seed, ¼ ounce, 25 cents, by mail. Address

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IN BEST VARIETIES.

ROSES, from 3-inch pots.

CARNATIONS, for fall delivery.

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SMILAX.

VIOLETS.

Prices low. Send for list.

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HAVE YOU ORDERED THE



New Seedling Chrysanthemum Wm. Simpson

THE EARLIEST LARGE CHRYSANTHEMUM.

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PRICE TO THE TRADE:

50c. Each, \$5 per Doz., \$35 per 100, \$200 per 1000

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And for sale by Henry A. Dreer, 711 Chestnut Street, Philadelphia; Henry F. Michell, 1018 Market Street, Philadelphia; Geo. C. Watson, 43 N. 10th Street, Philadelphia; E. G. Hill & Co., Richmond, Ind.; Nathan Smith & Son, Adrian Mich.; The Cottage Gardens, Queens L. I., N. Y.; Henry G. Standen, Haverford Pa.; A. Blanc, Philadelphia, Pa.; Robt. Craig, 49th and Market Sts., Phila.; J. C. Vaughan, 81 Randolph St., Chicago Ill.; John N. May, Summit, N. J. Mention Am Florist.

Big Chestnuts Numbo
and Paragon,
Asparagus,

100,000 Barr's Mammoth and Palmetto,

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MAPLES
Poplars,
Elms,
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SILVER LEAVED
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Of all sizes suitable for street planting.
We offer these by the thousand:

Evergreens
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Of all sizes, from young stock for transplanting,
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200,000 California Privet Hedge plants; 1,000,000
Flowering Shrubs, immense assortment of the best
varieties, 5000 Rosa Wichuriana or Memorial Rose.
Correspondence solicited; estimates furnished.

THE WM. H. MOON CO., Morrisville, Pa.

CHRYSANTHEMUMS.

80 New Varieties, including

Miss M. M. Johnson, J. E. Lager, Philadelphia Minerva, Marie Louise, J. H. Troy, Mrs. Henry Robinson, Sunrise, Miss G. Fletcher, John Shrimpton, Royal Windsor, Mrs. S. T. Murdoch, H. W. Riemann, Miss F. Pullman and Zulinda. Fifteen plants for \$1. Send for catalogue. Address

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PALMS,
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Agent: A. DIMMOCK,

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SEND FOR SPECIAL OFFER.

CHRYSANTHEMUMS.

Twenty varieties labeled, by mail \$1.

Swainsona Gal. Alba, by mail 10c. Lucretia Dewberry, from bearing stock, dozen, by mail, 50c. 3000 Callas at 5c each. 20 bushels Egyptian Onion Sets at \$2 per bushel. Carnations in variety, etc.

MAYER & SONS, Willow St., Lancaster Co., Pa.

TWO BEAUTIFUL NEW CHRYSANTHEMUMS

GRETCHEN BUETTNER.

A large, beautiful white of great depth; distinct in color and form. Strong stem and fine foliage. 3½ ft. Crown bud. Certificate of Merit Horticultural Society, Chicago. First Class Certificate N. C. S. (See AM FLORIST, Nov. 16)

\$5.00 PER DOZEN; \$35.00 PER 100.

READY MARCH 1, 1896.

MRS. E. BUETTNER.

A beautiful clear yellow reflexed flower, in form like Morel, with excellent stem and foliage. Late. 3½ feet. Crown bud.

First Class Certificate N. C. S.

\$4.00 PER DOZEN; \$25.00 PER 100.

ORDERS BOOKED NOW.

E. BUETTNER, Park Ridge, Ill.

W. W. COLES, KOKOMO, INDIANA.

OFFERS TO THE TRADE FIRST-CLASS, HEALTHY STOCK

Rooted Cuttings and Plants of Chrysanthemums,

CARNATIONS, CALLA AND DOUBLE VIOLETS, CANNAS, ETC.

Don't fail to get my new Price List before ordering elsewhere and save money.

Chrysanthemums.

Healthy plants from 2 inch pots at the following low prices.

Marion Henderson, Miss F. Bergman, The Queen, Major Bonaffon, Ivory, Niveus, Hicks Arnold, and Mrs. E. G. Hill, at \$2.50 per 100; ten of one variety at the hundred rate.

Vivian Morel, Eugene Dailedouze, Minerva, and Golden Wedding, at 60 cents per doz.

Philadelphia, Mrs. H. Robinson, Miss Florence Pullman, Mrs. S. T. Murdoch, and Miss M. M. Johnson, at 75 cents per doz.

Fifty other choice varieties at correspondingly low prices—send for catalog. Cash with order from unknown parties; if plants are not satisfactory they may be returned at our expense, and money will be promptly refunded.

HELEN KELLER CARNATIONS fine, healthy rooted cuttings, \$2.50 per 100.

BEN HAINS CO., Box 16, New Albany, Ind.

PINK IVORY,

(MISS AGNES L. DALSKOV.)

The invincible New Chrysanthemum, Strong, healthy plants from 2-inch pots \$2 00 per dozen; \$10 00 per hundred.

SPECIAL PRICES ON LARGER QUANTITIES.

M. HANSEN, New Durham, N. J.

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Always mention the American Florist when writing to advertisers.

Denver, Colo.

After having summer weather all winter it begins to look as though we were to have winter weather all summer.

Mrs. C. R. Gallup moved into her new store at 1015 Sixteenth street March 1. The location is one of the best in Denver. The interior is very tasty and neat and reflects credit on the good taste of Mr. Perry Gallup who designed the decorations and fittings. Mr. Gallup is erecting a small greenhouse on the corner of Fifteenth and Cleveland place for the sale of bedding plants and nursery stock.

Mr. John L. Russell, who severed all connection with the Park Floral Company January 1, and who was appointed Chief of Police March 1, has entered into his duties in his new position and is winning the praise of all good citizens by the strict and impartial administration of his department.

Mr. E. A. Beach has been succeeded as foreman of the Park Floral Company by Mr. C. A. Fawcett.

The Lewis Commission Company report a good demand for good flowers.

A fine collection of palms and decorative plants has been added to the already fine collection at the City Park greenhouses. The commissioners have let the contract and teams are at work excavating for the large lake near the center of the city that has been planned for some time. Mr. Graham, the efficient and genial superintendent of our city park system, is making elaborate plans for the summer and will undoubtedly add during the coming season to the extremely favorable impression his work has created in the past.

Mr. Charles Adams, who has been in charge of Mrs. Gallup's greenhouses at University Park for the past three years, leaves May 1 to accept the position of superintendent of the State Capitol grounds.

Mr. Ernest Flohr, of Colorado Springs, was a visitor in Denver the 8th.

The discussion of the merits of indoor and outdoor culture of carnations at the American Carnation Society's meeting was read with much interest by Denver florists, as indoor culture was first attempted here this season. The same diversity of opinion exists here that existed at the meeting of the society, but the general opinion seems to be that in Denver at least indoor culture is of doubtful economy, but that a better quality of blooms is produced by that culture at an expense of quantity. The experiment, however, has not been given a thorough trial and no one seems willing to give a decided opinion except as to McGowan; all who have here tried McGowan indoors agree that it is the better method of cultivation.

Mrs. R. Mauff is making preparations for the erection of an asparagus house 24x75, twenty feet high, and has just completed the installation of a new 100-horse power tubular boiler.

A bed of *Antirrhinum majus alba* in bloom at the H. H. Given Florist Company's greenhouses is a pretty sight. Mr. Given reports a good demand for the blooms at 6 to 8 cents each.

Benson & Crockford closed their city store last month.

Mr. John Berry has disposed of his interest in the Denver Florist Company and has accepted a position with the Colfax Floral Company.

When writing to any of the advertisers on this page please mention the American Florist.

Siebrecht & Wadley's

ROSE HILL NURSERIES, NEW ROCHELLE, N. Y.

The largest and finest Collection of Palms in AMERICA. The beauty of stock is home-grown, making dwarf in fine shape and stand more usage than imported stock. A VISIT to our NURSERIES or a trial order and you will be convinced.

SPECIALTIES: NEW CARNATIONS AND CHRYSANTHEMUMS OF 1896.

Palms for Growing. PALMS FOR SELLING. Palms for Decorating.

Areca lutescens, Cocos Weddelliana, Kentia Belmoreana, Kentia Forsteriana, Latania borbonica, Phoenix 3 varieties, Pritchardia grandis. DRACÆNAS, Commercial varieties.

The Grandest stock Ferns for *jardinieres* in 5 varieties. No equal to our stock. We have without exception, the finest stock of Palms, Stove and Foliage Plants, Orchids and Ferns in fancy named varieties for private use.

Before ordering LILY VALLEY, LILIU HARRISII for next season, write us for sizes and prices. To your advantage.

WHOLESALE PRICE LIST READY APRIL 1ST.

SIEBRECHT & WADLEY, N. Y. OFFICE,
409 FIFTH AVE.

EDWARD HATCH,

..... Auctioneer.

Plant auctions every Wednesday and Saturday
throughout the spring.

Advance Lists Mailed to all Applicants.

Address EDWARD HATCH,
22 Devonshire St., Boston, Mass.

APRIL OFFER.

Alternantheras, red and yellow.	Per 100
Ageratums, blue, 2-in. pots.	2.00
Geraniums, 3-in. pots.	4.00
Smilax, 2-in. pots.	1.50
Pansies, cold frames, small \$1, larger 1.50	

Cash with order.

JOS. H. CUNNINGHAM, Delaware, O.

PELARGONIUM "THE BRIDE."

We again offer this Pelargonium, confident that you will agree with us that it is the best of its class for the retail florist, as its profusion of bloom and delicate beauty make it an irresistible attraction to your customers.

Price, plants in bud or blossom, \$6; by mail post-paid \$1 per dozen. Cash with order.

TILTON BROTHERS, 222 Grove St., Aurora, Ill.

ALTERNANTHERAS.

A. Nana, R. Nana and Versicolor, 10 cents a 100, \$5 a 1000.

A. J. BALDWIN, Newark, Ohio.

VIOLETS—MARIE LOUISE.

Tall, sand struck, grown cold.

1ST GRADE \$15 PER 1000 2D GRADE \$10 PER 1000.

Try a change with good stock, and do not contound these plants with rooted runners

GEO. SALTFOED, Violet Specialist,
RHINEBECK, N. Y.

BERNARD SPAE,

GHEENT, BELGIUM,

offers at moderate prices the following plants, of which he makes a specialty:

Azaleas Indica and Mollis; Araucarias excelsa, glauca and compacta; Palms, Rhododendrons, Laurus, Laurestinus; Spiræas astilboides, floribunda and compacta; Metrosideros, Mimosa, etc., etc.

VIOLETS LADY CAMPBELL, MARIE LOUISE,

\$1.00 per 100; \$7.50 per 1000. Strong, large plants.
MISS P. A. BAKER, Media, Pa.

A. & F. RÖLKER,
Plant Auction Rooms,
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Cut Flowers, Wholesale,
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106 Liberty Street.

Buyers will find here Dormant Nursery Stock, Choice Shrubbery, Budded Roses, Lily Bulbs, Orchids, Palms and Decorative Plants, and later on Greenhouse and Bedding Plants from the largest Growers.

Sales every Tuesday and Friday throughout the season, also frequent Special Sales.

FOR EASTER WEEK.

An immense stock of Lilies and other desirable plants in bloom.

Catalogues mailed to applicants. Send us your address and we will put your name on our mailing list



OUR CUT FLOWER DEPARTMENT.

Once an experiment; now an assured success. Close to all the great Railroads, Steamships and Ferries with unequalled facilities for shipping flowers at short notice.

Send for quotations on all Easter Stock. Consignments solicited.

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NEW YORK.

For Sale :: Plants of Great Merit.

Parson's Rhododendrons, the hardiest of all Clematis Jackmann's
Gratted on Catawbiense, grown and exported Only by the Boskoop Holland Nursery Association.
and all other good varieties, Snowballs, Hydrangeas, Azalea Moilis, Ghent and Amœna, Tree Roses, and

10,000 Hardy Imported Dwarf-budded Roses for potting and the garden; put up in four varieties (among them Jacks, Paul Neyron, Magna Charta, Rothschild, etc.), in each bundle of ten plants. Descriptive List of varieties of Roses on application.

Reliable Dutch Cabbage Seed—Grown by Van Namen Bros., Holland. Flower, Garden and Grass Seeds package or bulk at market prices.

Spring Bulbs—Fine Tuberose, 3/4-inch; per barrel of 1,500, only \$5.00. Gladiolus, Glorinias, Begonias, Caladiums, Cannas, etc., etc.

CASH, PLEASE, WITH ORDERS FROM UNKNOWN CORRESPONDENTS.

ESTIMATES GIVEN ON BULBS AND PLANTS FOR SUMMER AND FALL DELIVERY.

C. H. JOOSTEN, Importer, 36 Dey Street, New York.

SPECIAL OFFER

Little Beauty Fuchsia.

With every order of 50 plants I will send 3 large plants from 3-inch pots in full bloom.
Price L. B. Fuchsias, 2-inch pots, strong plant \$3.00 per 100
Heliotrope Mme. Bruant, the best ever introduced, 2-inch pot 6.00 per 100
Vinca Blooming, from 2 1/2-inch, fine stock 30.00 per 1,000
Geranium, from 2-inch, strong plant, Mme. Pollock 6.00 per 100
Geranium, Happy Thought, Silver Cord, McMahon 4.00 per 100
Geranium, La Favorita, best double white \$3.50 per 100, \$30 per 1,000
Begonia Rex in great variety, C. L. Erdody included, 2 1/4-inch pot, strong plant, ready April 15th 5.00 per 100
CASH WITH ORDER.

LINCOLN I. NEFF, FLORIST,
4010 Butler Street, PITTSBURG, Pa.

BULBS ALL FLORISTS' BULBS AT LOW-est possible prices. Amaryllis, Begonias, Callas, Gloxinias, Lilies, Montbretias, Gladioli, Tuberose, Tigridias, New Cannas, Dahlias at bargain prices. Jardinieres cheap.
A. BLANC & CO., Philadelphia.

ANDORRA NURSERIES.

WILLIAM WARNER HARPER, Manager, Chestnut Hill, PHILA., PA.

SPECIALTIES:

LARGE { Specimen Ornamental Trees,
Hardy Rhododendrons and Azaleas.

M. LOUISE VIOLET.

Runners Ready to Pot, 100 for \$1.
NEVER HAD ANY DISEASE ON OUR VIOLETS.
Hydrangea, 8-inch pots, will bring \$1 each, Decoration 25c
Hydrangea, 3-inch pots 5c
Paeonia, fine collection 400 for \$6
Coleus, rooted cuttings 75c, 100
The balance of our Gladiolus, small bulbs, cheap.
McCREA & COLE, Battle Creek, Mich.

WANTED.

Fifty thousand Geraniums, ten thousand Begonias, fifteen thousand Cannas, yellow, dark red and orange scarlet; five thousand White Heliotropes. Also fifty thousand rooted cuttings of Chrysanthemums. Quote best price on all or part, stating size of plants.

THE GOOD & REESE CO.,
Springfield, Ohio.

VIOLETS

ROOTED RUNNERS, strong and healthy.

	per 100	per 1000
Lady Hume Campbell,	\$1.00	\$8.00
Marie Louise,	.75	5.00

ANCHORAGE ROSE CO. ANCHORAGE, KY.

The Two Best Ipomœas.

IPOMœA PANDURATA and IPOMœA MEXICANA or PANICULATA (field grown).

Largest stock. Write for prices to

JAMES FROST,

Darke Co.

GREENVILLE, OHIO

Waterbury, Conn.

Mr. A. Dallas evidently does not believe in doing things by halves. Ten thousand dollars for a lot may seem rather a steep figure. Such, however, was the price which Mr. Dallas paid for an acre of ground on North Willow street, one of the finest and most desirable residence parts of the city. The property is a very valuable one and the most conservative real estate men regard the deal as a splendid investment and a decided bargain.

Mr. Dallas expects to do extensive building during the coming spring, of which I shall give a detailed account in due season.

R. S. Rasmussen, the Bank street florist will build an additional 30x85 house for carnations. The house will run east and west with the short span to the north; the glass will be 16x24, of double thickness. This will give Mr. Rasmussen a total of over 10,000 feet of glass. In addition to his building operations, Mr. Rasmussen intends to remodel his Bank street store, putting anything about the place in the best of shape.

What promises to be the largest individual rose house in the state of Connecticut, is now being built by Mr. Wm. M. Cuttle. The house will cover 325x26 and in point of construction and general equipment, will be a model. The glass used is 16x24, double thick. The house runs east and west with the short span to the north.

Thos. Stubbs has retired from the florist business, having sold out his stock, etc., to Mr. Rasmussen.

The bright weather of the past few days has somewhat broken the dull spell of Lent; business looks brighter and more encouraging. HOMO.

Home of the Queen of Roses.

BELLE SIEBRECHT.

READY APRIL 1st.

Send in your orders early; the demand is great. The finest pink ROSE ever introduced.

2-inch pots.	\$15.00 per 100
2-inch pots.	65.00 per 500
2-inch pots.	125.00 per 1000
3-inch pots.	18.00 per 100

NOTICE:—All orders filled in strict rotation.

SIEBRECHT & WADLEY,

Rose Hill Nurseries, NEW ROCHELLE, N. Y.

Fine Lot of New Roses.

	Per 100	Per 1000
Belle Siebrecht, 3-inch pots.	\$10.00	\$ 50.00
Meteor.	3.00	25.00
Bride	3.00	25.00
Bridesmaid	3.00	25.00
Perles	1.00	

All stock grown cool.

W. A. KENNEDY,

Lake Forest, Ill.

Roses for Spring Sales

In excellent condition, just starting into growth. Very cheap.

From 3-inch pots, \$5.00 per 100.

LA FRANCE, ALBANY, BRIDE, BRIDESMAID, TESTOUT.

BROWN & CANFIELD, Springfield, Ill.

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HOUSE NO. 3 IS THE BIRTHPLACE OF THE ROSE

Bridesmaid ::

—AND THE—

PARENT STOCK

NOW OCCUPY SEVERAL OF THE

Sunnywoods Greenhouses.

It is a sport from the CATHERINE MERMET.

It is rated the best pink tea rose known. In the cut flower market it takes the lead of all the pink flowers. Illustration of Bridesmaid house No. 6 may be seen in AMERICAN FLORIST No. 399.

Also the popular Hybrid Tea Rose

METEOR.

Please write, stating exactly the number you want and I will quote you a special price.

FRANK L. MOORE,

Price List on Application.

Chatham, New Jersey

Roses

Mrs. Pierpont Morgan

From 2 1/4 inch pots, per 100, \$15.00	per 1000, \$125.00 extra selected
" 2 " " " " 100, 12.50	" 1000, 100.00 strong plants
" 3 " " " " 100, 18.00	" 1000, extra selected
" 2 " " " " 100, 12.50	" 1000, strong plants
" 2 " " " " 100, 8.00	" 1000, 75.00 " "
" 2 " " " " 100, 5.00	" 1000, 45.00 " "
" 2 " " " " 100, 5.00	" 1000, 45.00 " "

White Snapdragon

(antirrhinum majus alba).

" 2 " " " " 100, 4.00	" 1000, 35.00 " "
Rooted cuttings, ...	" 1000, 20.00 " "

CARNATION

William Scott

Rooted cuttings, ...	" 100, 2.50	" 1000, 20.00 " "
----------------------------	-------------	-------------------

AGLAONEMA PICTUM

From 3 inch pots, ... per doz., \$2.00 fine plants

ADIANTUM

Capillus Veneris Imbricata From 5 inch pots 12.00 extra fine plants

MONEY ORDER OFFICE
STATION H, PHILA., PA.

Address all orders to **EDWIN LONSDALE,**
Wyndmoor, CHESTNUT HILL, PHILA.

Now Ready—Rose Plants.

Cool Grown and Vigorous.

Per 100 Per 1000

BRIDESMAID, 3-inch pots, . . . \$4.50 \$40.00

METEOR, 3 inch pots, ... 4.50 40.00

BRIDES, 3-inch, ... 1.50 40.00

PERLE, 3-inch pots, ... 4.50 40.00

READ THIS UNSOLICITED TESTIMONIAL.

MESSRS. BRANT & NOE:

Gentlemen—Rose plants received in fine condition, and the stock is more than satisfactory. I have never received such stock before. Thanks for the fine stock and extras. Have planted them and expect good results. Yours truly, D. B. WOODRUFF, Macon, Ga.

BRANT & NOE, Forest Glen, Ill.

When you write an advertiser please state that you saw the adv. in the FLORIST.

SUMMER IN WINTER

BY USING

Standard Greenhouse Boilers

One cent gets our Catalogue.

GIBLIN & CO., = Utica, N. Y.

ROSES

for FORCING.
for SUMMER BEDDING.
for all PURPOSES.

**Teas, H. Teas, Monthlies,
Hybrids, Climbers, Etc.**

ALL IN A 1 STOCK IN ALL THE BEST VARIETIES.

HEADQUARTERS for MRS. PIERPONT MORGAN. Come and see its VALUE for yourselves.

JOHN N. MAY, SUMMIT, N. J.

CRIMSON RAMBLER ROSE,

From 2 1-2 inch Pots, Ready April 1st.

\$35.00 per Thousand.

ELLWANGER & BARRY,

Mount Hope Nurseries, ROCHESTER, N. Y.

ROSES ROSES

Forcing Roses, Everblooming
Roses, New Roses, Hybrid Roses,
Polyantha Roses, Climbing Roses,
Noisette Roses, in fact all kinds of Roses.
Chrysanthemums, Carnations, Geraniums,
Fuchsias, Cannas, Coleus,
Hibiscus, Begonias
in fact a general line
of all kinds of plants
for Florists' use. Our
trade list now ready.
Send for it.

WE ARE THE
LARGEST ROSE
GROWERS IN
THE WORLD.

The Good & Reese Co.

CHAMPION CITY GREENHOUSES. Box 2,
SPRINGFIELD, OHIO.

Rogers Park Floral Co.

GOOD FIRST-CLASS STOCK.

In 2 1/4-inch pots.	per 100	per 1000
Am. Beauties	\$5 00	\$40 00
C. Testout	6 00	50 00
Kaiserin Victoria	4 00	35 00
La France	4 00	35 00
Belle Siebrecht	6 00	50 00
Bridesmaids	3 00	25 00
Brides	3 00	25 00
Perles	4 00	35 00
Meteors	3 00	25 00

Orders for less than 100 not accepted.
Ready for shipment now.

Send Orders to 41 Wabash Ave., Chicago.

Swan'ey White Violets

Rooted Runners for sale, \$8 per 1000.

LEWIS TURNER, Florist, KENOSHA, WIS.

ROSES

Beauties, Mermets, Cusins,
Testouts, Niphotos, Perles,
Brides, Bridesmaids, Meteor,
Hoste, La France, Wootton,
Wattevilles, Aug. Victorias, Rooted Cuttings. Cash with
order. Owing to number booked, they will be executed in
rotation. To assure prompt delivery order early.

Address for quotations,

VILLA LORRAINE ROSERIES,

Madison, New Jersey.

20,000 **ROSES** 20,000

Bridesmaid, Bride, Kaiserin Augusta Victoria, Caroline Testout,
Niphotos, Mrs. Pierpont Morgan, and American Beauty.

In 2 1/2 and 4 inch pots. for April, May and June Delivery.

All stock is guaranteed A 1, and grown from healthy plants only. Inspection cordially invited, and
blooms from these houses can be seen at Mr. John I. Raynor's, New York.

PRICES UPON APPLICATION.

HOLMEDALE GREENHOUSES, - MADISON, N. J.

Clematis.

Strong, heavy, home-grown plants,
several shoots, in 15 popular sorts,
35c each, \$4 per doz., \$30 per 100.

F. A. BALLER, Bloomington, Ill.

E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

Chicago.

Market conditions remain unchanged; prices are the same as last week; both roses and carnations have improved in quality, but no one seems to be cutting an extra large quantity. The moderate cut, together with the numerous shipments, helps to keep prices stationary. Harrisii shows a stiffening in prices, and is likely to advance next week. The usual figure now is \$6. Easter prices are not yet settled, but lilies seem likely to be held at \$10 to \$12 all over. Tulips are poor, and daffodils still very slow. Violets are more plentiful.

The meeting of the Florist Club next Thursday evening, March 26, will be devoted to the violet. In addition to essays and discussions upon cultural methods there will be an exhibition of violet flowers and plants, including all the new varieties now being offered to the trade. Every one is invited to bring to the exhibition anything of interest in violets, and introducers of new varieties are invited to send a plant and flowers whether or not a special request has been sent them.

The South Park Commissioners have elected officers for the ensuing year as follows: Jas. W. Ellsworth, Pres.; E. J. Shumway, Sec'y; Jno. R. Walsh, Treas.; Jefferson Hodgkins, Auditor.

Henry H. Penshorn, a well known South Side florist, died last week, his funeral taking place on Saturday, March 14. The interment was in Oakwood Cemetery.

Mr. T. J. Corbrey has sold his commission business to a new firm, Winters & Glover, who will carry it on as heretofore at their present quarters. Mr. Glover was a member of the firm for some time before the present change.

Mr. John Warburton, of Fall River, Mass., was in the city Friday. He has visited Honolulu, San Francisco and Denver, and is now on his way home. Mr. G. Veldhuyzen Van Zanten, Jr., Hillegom, Holland, visited Chicago this week.

J. C. Vaughan is spending a few weeks in New York.

T. J. Corbrey has returned to California.

Dignify the Profession.

The florists everywhere should show to the world the extent and magnitude of our calling, and that we are proud of the fact that we cater to and encourage the very best sentiments and emotions of human nature, and that to be a florist we must be good.

R. B. C.

MARECHAL NIEL

A splendid lot of this fine rose.

PRICES

- 2 1-2 inch Pots, 4 to 6 inches. \$3 per 100
- 3 1-2 inch Pots, 6 to 12 inches - 6 per 100
- 4-inch Pots; 12 to 18 inches - 9 per 100
- 5-inch Pots, 15 to 20 inches - 10 per 100
- 6-inch Pots, 20 to 24 inches - 12 per 100
- 7-inch Pots, 24 to 30 inches - 18 per 100

Also 100,000 plants of Hybrid Perpetuals in 2½-inch pots. Write for prices and varieties.

W. S. Little & Co.,

ROCHESTER - - NEW YORK

Mention American Florist.

REINBERG BROS.,

Offer the Following Stock for Spring Planting:

Roses in 2 1-2 inch pots.

	Per 100	Per 1000
AM. BEAUTIES.....	\$5.00	\$40.00
C. TESTOUT.....	4.00	35.00
KAISERIN VICTORIA.....	4.00	35.00
LA FRANCE.....	3.00	25.00
BELLE SIEBRECHT.....	6.00	50.00
BRIDESMAID.....	3.00	25.00
BRIDES.....	3.00	25.00
MRS. PIERPONT MORGAN....	5.00	
METEORS.....	3.00	25.00

Orders for less than 50 of any one variety not accepted. READY FOR SHIPMENT.

Rooted Carnation Cuttings.

	Per 100	Per 1000
WM. SCOTT.....	\$1.25	\$10.00
ALBERTINI.....	1.25	10 00
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LIZZIE GILBERT.....	3.00	25.00
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Free of rust. Ready for immediate shipment.
Orders for less than 100 of any one variety not accepted.

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MRS. J. P. MORGAN.

From the Retailers' Standpoint.

Extra large size, exquisite color, delicious fragrance, all combine to make a rose popular.

From a Growers' Standpoint.

Great freedom of bloom during the dull Winter months, when flowers are always scarce and prices high, make Mrs. J. Pierpont Morgan the most profitable rose to grow.

Fine young plants from 2-in. pots, \$12.00 per 100; \$100.00 per 1000.

The flowers from the Plants from which this stock is grown can be seen every morning at the New York Cut Flower Co.

FRANK McMAHON, - Seabright, N. J.

FINE PLANTS OF

BRIDESMAID and BRIDES

Will be ready early in April. Also a full line of all the best forcing roses.

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Rose Plants and Rooted Cuttings

Plants in 2 1-2 in. Pots.

	Per 100
Am. Beauty.....	\$5 00
Mrs. J. Pierpont Morgan.....	6 00
Brides.....	3 00
Bridesmaids.....	3 00
Meteors.....	3 00

Cuttings Strong and Well Rooted.

Am. Beauty.....	2½c
Brides.....	1½c
Bridesmaids.....	1½c
Meteors.....	1½c
Mums.....	1½c

Our 'Mum cuttings are the best commercial varieties. No order for less than 100 filled at these prices or 50 of one variety. Our new 'mum Kate B. Washburn, earliest large white, 2-inch pots 10 cts.

BASSETT & WASHBURN, Hinsdale, Ill.

Deegen's White Marechal Niel

FRANK DEEGEN, Jr.

Grand Rose Novelty of my own raising. Approved by numerous rose societies and associations. Last year's plants, strong from open ground, 3 to 4½ feet high, \$7.15; budded, worked low with dormant bud, \$1.45; 10 buds, \$11.90.

100 buds.....	\$116.65
Buds, for working, 5 for.....	3.55
Buds, for working, 10 for.....	6.20
Buds, for working, 100 for.....	59.50

Frank Deegen, Rose Grower.

KOSTRITZ, THURINGIA, GERMANY.

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CRINUM KIRKII (Nobile),

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PANCRATIUM CARIBAEUM,

"Spider Lily," extra heavy blooming bulbs, 50c per dozen; \$3.00 per 100.

All florists should try these fragrant lilies. Easy to grow. SPECIAL Prices by the 1000 in all sizes. Send for our large catalogue.

REASONER BROS.,

Royal Palm Nurseries, ONECO, FLA.

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LOWEST PRICES QUOTED ON APPLICATION.

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Surplus Stock Evergreens.

	Per 100
European Silver Fir.....	2 to 3 ft. \$8 00
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Black Spruce (Abies nigra) 3 to 4 ft.	10 00
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Austrian Pine.....	2 to 3 ft. 15 00
Pinus excelsa.....	1½ to 2 ft. 15 00
Red Cedar.....	4 to 5 ft. 15 00

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Wm. Scott, Albertini, Lizzie McGowan, Anna Webb, Tidal Wave from soil; \$1.25 per 100, \$10 per 1000.

CHRYSANTHEMUMS from 2-inch pots, 25 best commercial sorts, most distinct colors, \$2.50 per 100, \$20 per 1000.

ROSES from 2½-inch pots, Hermosa, Mermets, Safrano, Cath. Mermets, Brides, La France, Niphetos, Gontier, etc.; \$3 per 100, \$25 per 1000.

HELIOTROPES, Bruant, White Lady, D. K. Bruant; \$3 per 100, 3½-inch pots, White Lady, in bud, \$6 per 100.

VERBENAS, best sorts only, \$2.50 per 100.
GERANIUMS, best varieties, 2½-inch pots, \$2.50 per 100; 3½-inch pots, \$6 per 100.

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VICK'S WHITE BRANCHING.....	per oz. \$2.00
" PURPLE "	" 1.50
" ROSE "	" 1.50
" SEMPLE'S PINK "	" .75
ZIRNGIEBEL'S DOUBLE WHITE.....	" 1.50

Trade packet of any of the above, 25 cts., or the set of five varieties, one trade pkt. or each, \$1.00.

Write for our Catalogue.

VICK & HILL CO., Rochester, N. Y.

THE harder the times

THE more considerate we should be.

THE wise florists know, sales depend on the quality of their stock.

THE strongest plants of the best varieties, is the surest way to be successful with Chrysanthemums.

THE best sorts for florists' use we have in quantity.

THE new varieties of 1896 are at hand, and can supply any of them.

THE best collection of the year is Autumn Bride, Sun Clad, Lenawee
E. A. Kimball, Modesto, Violescent, Rinaldo, and Yanoma,

THE new Carnations we offer are Ivory, Triumph and Della Fox.

THE standard sorts we also have.

THE two Violets we can supply are Lady Campbell and Marie Louise.

THE best time to buy is now.

CATALOGUE FREE.

NATHAN SMITH & SON,

ADRIAN, MICH.

100,000 VERBENAS.

THE CHOICEST VARIETIES IN CULTIVATION.

Fine pol plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, \$1.00 per 100; \$8.00 per 1000.

NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.
WE ARE THE LARGEST GROWERS OF VERBENAS IN THE COUNTRY. OUR PLANTS CANNOT BE SURPASSED.

New Carnation "Crimson Sport."

Large flower, finest velvety crimson, best keeper. Plants hardy, productive, free from disease. A good market variety. Send for list of rooted Carnation cuttings.

ROOTED CUTTINGS, \$1.50 per dozen; \$10.00 per 100; \$60.00 per 1000.

J. L. DILLON, Bloomsburg, Pa.

Heating.

Noticing Th. Van der Meulen's inquiring we give you description of our heating apparatus, which may contain some information that he can make use of.

Our houses are so located that we cannot excavate over two and half feet on account of water. We use a thirty-five H. P. tubular steam boiler, which we got second hand, changing it to hot water by cutting two 4-inch holes for flows and two for returns, running flows across a twenty foot shed overhead into a 6-inch distributing main. Opposite each house (six in number, 20x100) an opening for 4-inch pipe is made. This pipe is carried overhead to the farther end of each house dropping down, connecting with pipes either under benches or on walls, grading all pipes under benches or on walls back toward boiler, return main being a duplicate of distributing main.

The returns into boiler have a perpendicular rise of two and a half feet directly under boiler. We have been using this system for four years, and it is perfectly satisfactory. We have made some change each year where we saw improvements could be made, and we think we have a very excellent apparatus. All our pipe is the regular cast iron 4-inch greenhouse pipe. With this system no pit for boiler is really necessary. By carrying the flow directly over head to the farther ends of houses we obtain an evenness of temperature that was not possible with old system. The overhead flow is hung on ridge piece by No. 12 wire put twice around pipe and through an iron staple so made that it can be fastened with 1½-inch wood screws to underside of ridge.

We use seven runs of 4-inch pipe to heat carnation house; the overhead flow and six returns. The one 4-inch flow will supply eight returns if it is needed; if 2 inch pipe is used double the quantity would be needed to give the required temperature.

The expansion tank (a coal oil barrel) is located directly over boiler and six feet above highest point of flows.

Hoopeston, Ill.

A. L. SHRIVER.

Pritchardia Filamentosa.

I would like some instruction about growing *Pritchardia filamentosa*. They do well enough with me in small pots, but after I repot them the leavesturn yellow and die. It is the same way with the young leaves that come afterward. I give the plants the same treatment as the other palms. F. W.

Pritchardia filamentosa (now known to botanists as *Washingtonia filifera*) is not a very satisfactory pot plant, and frequently suffers in the manner described by our correspondent.

This palm grows best in a somewhat lower temperature than is usually given to the ordinary trade species of palms, an average of 50° to 55° being sufficient for its needs.

The soil best adapted for its growth is rich loam of rather stiff character, and in repotting avoid disturbing the roots as far as possible, and also give but a small shift, as this plant grows rather slowly while in a young state. W. H. TAPLIN.

THE advance premium list for the 10th annual chrysanthemum show of the Society of Indiana Florists, to be held at Indianapolis, Nov. 10 to 14, 1896, has been issued. Copies may be had by addressing R. A. McKauley, Sec'y, Garfield Park, Indianapolis, Ind.



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All varieties of Flowers in season. Prices adjusted to suit supply and demand. Prompt Service.

CARNATIONS, ROSES and CHRYSANTHEMUMS.

All the new and standard varieties at reasonable rates.

CANNAS, THE NEWEST AND MOST VALUABLE.

Descriptions and prices mailed on application.

PALMS, Kentias, Latanias, Arecas, Cocos, Etc.,

We can assure our customers satisfaction. Lists of sizes and prices furnished on application. We will take special care to provide any stock you may be in need of.

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We are prepared to make contracts for immediate or Summer delivery.

Bargains in Bulbs.

We have a nice lot of Auratum and Speciosum Lilies; also Cold Storage Valley, valuable for immediate planting. We have just mailed our customers a special offer in *Harrisii* Bulbs for immediate acceptance; if you have not received it, let us know.

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The best new single and other varieties; quality good.

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A few special bargains in choice named varieties.

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The best of the Nymphaeas, Nelumbiums, Victoria Regia, Papyrus and other choice plants for Ponds.

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New crop Cape Flowers, extra quality, large and white; prices on cases or 10 lb. lots on application.

Cycas leaves, the best in the world; uniform width and length and even color; exclusively used by the leading florists. Also a full line of all natural prepared palms at low prices.

A new and salable novelty in funeral work: Small doves of white chenille, crystallized, especially appropriate for children's designs; prices from 75c to \$1.50 per dozen.

Do not forget that we are the exclusive owners of the adhesive ribbon letters; we will send samples on receipt of 2 cent stamp.

We carry a full line of tin foil in violet and other colors at lowest prices.

On Wheat Sheaves we lead all, and defy competition on quality or prices.

An immense stock of artificial flowers and leaves; Jardinieres in all styles and material; Doves, extra quality; Fibre Vases and Saucers at manufacturers' prices; Wire Work; Milk Weed Balls.

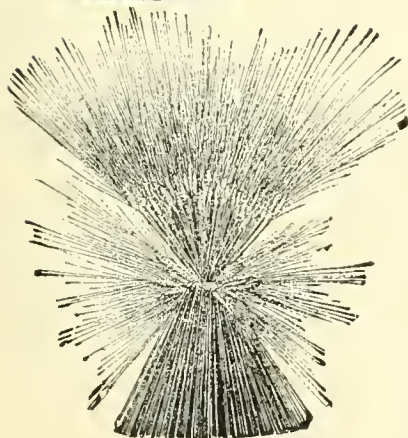
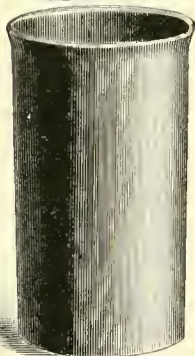
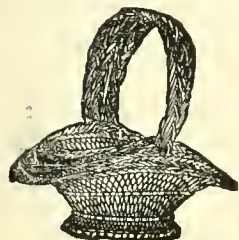
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Biltmore, N. C.

Mr. George W. Vanderbilt has made great progress in the transformation of what was but recently a wilderness into what will be the most wonderful estate in this and, I venture to assert, any other country. A pen picture, however graphically described, would fail to convey even but a faint idea of the extent and beauty of this magnificent domain. Standing upon a mountain top on which is erected the mansion, which is approached from the main entrance by a winding drive of three miles, one sees on every hand splendid roads which form one of the great features. I am told when completed the total length will be 72 miles. Looking beyond the residence is seen an Italian garden, passing through which we come to the walled fruit garden. Beyond this and still descending by a succession of steps we arrive at the splendid range of houses erected by Lord & Burnham, the crests of which are just visible from the esplanade above. The houses are filled with the choicest stock under the care of Robt. Bottomly, who is justly proud of his charges. I could not refrain from measuring a fine Cocos Weddelliana, it stands six feet high and has twenty perfect fronds. Dracaenas are beautiful; amongst them is Shepherdii seven feet tall, perfect in every way. I mention these as instances of the extraordinary growth plants have made in the brief space of time. Big specimens of palms received from all parts of this continent are dwarfed in the fine banqueting hall sixty feet high, while the conservatory adjoining is 30 feet high.

At the nursery, situated in a valley some three miles from the hothouses, every tree or shrub that will thrive in this latitude is being raised. Mr. C. D. Beadle, who has charge of this branch, informs me it is the intention to create within a radius of twelve miles an arboretum which will stand without a peer, it is to be based on the order of the Arnold arboretum. Dried specimens of each kind are prepared, properly labelled and preserved in a fire-proof safe, some 25,000 being already finished. The collection includes Dr. Chapman's invaluable work. It is intended as an object lesson and promises to be the wonder in arboriculture as in horticulture of the twentieth century.

W. M.

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Plants, middle size, ... 75c per 100; \$5.00 per 1000.
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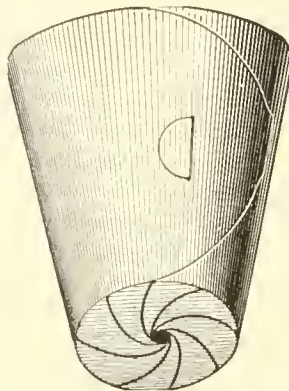
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For Glazing Greenhouses. A substitute for putty. Superior in every way. **MASTICA** and **MASTICA GLAZING MACHINES** were given Highest Award of S. A. F. at Pittsburg. Address for circular F. O. PIERCE & CO., 170 Fulton St., N. Y. SOLE MANUFACTURERS.

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FROM THEIR CELEBRATED NEPONSET® WATERPROOF FABRICS.

For shipping of plants in pots, with intact root balls, they have no equal. For a pot cover in decorations, they are unsurpassed in cheapness. Bulbs and all soft-wooded plants which do not shun water agree well with this pot.

Cabbage, Tomato and Strawberry plants have been grown with success in these pots. Paper pots retain the moisture in the soil longer than earthen pots.

We are agents for F. W. Bird & Son, and always carry a limited stock at our store. If pots are ordered to be shipped by freight, 50 cents cartage must be added for each shipment. The Neponset Pots are manufactured of waterproof paper, are unbreakable, handsome, light, cheap and terra cotta color.

These pots come packed in light crates of always even contents as stated hereafter:

Prices are net spot cash, delivered at Factory, East Walpole, Mass., or from stock in New York (at our option). Less quantities than original crates are charged at 100 rates.

Size.	crates hold Original	of 1000 pots, Gross weight	Per 100. Price.	Per 1000.
2 1/4 inc.	1,000	about 20 lbs.	\$0.25	\$2.00
2 1/2 "	1,000	" 23 lbs.	.30	2 30
3 "	1,000	" 34 lbs.	.35	2 80
3 1/2 "	1,000	" 45 lbs.	.50	4.00
4 "	500	" 76 lbs.	.60	5.00
5 "	500	" 100 lbs.	.90	8 30
6 "	500	" 150 lbs.	1.50	13.35

Sample dozens, postage paid, by mail.

2 1/4	2 1/2	3	3 1/2	4	5	6 inch pots.
For 10c.	11c.	14c.	17c.	22c.	40c.	60c. per dozen.

Only full dozens of one size sent at above prices.

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Sizes 1 1/2-inch and 2-inch, \$2.00 per 100. Patent fastener with each letter.
With orders for 500 letters we give away a nicely stained and varnished box. See cut in next week's American Florist.

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Give them a trial. You
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the market.
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For a Dozen First Quality

Doves AND AN 8 X 10

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... SIMILAR TO THIS ...

It Will Pay You to Have One

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TO SHOW CUSTOMERS.

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I grow for and sell to the **Trade only** and I believe I know the **Cut Flower Sorts** and can supply them to your advantage. Write me for prices now, mentioning this Special Number of the American Florist and be convinced.

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Prices Greatly Reduced.

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California Violets, 5 to 6 in. pots. Strong plants, in bloom, each.....\$ 25
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Marie Louise Violets, rooted cuttings, per 100 1 25
Smilax, strong, in flats, 75c per 100; 3 inch pots, per 100..... 1 25
Gynura, velvet plant, 4 inch pots, each..... 15
Fuchsias, 12 varieties, including Trailing Queen, rooted cuttings, \$1.00; 2½ inch per 100..... 2 00

Carnations Silver Spray, McGowan, Wm. Scott, Tidal Wave and Em. Pierson, rooted cuttings, per 100..... \$ 1 00
Pansies and hardy Daisies, per 100..... 1 00
Large amounts extra prices.
Geraniums, all kinds mixed, 2 inch pots, \$1.50; 3 inch, \$3.00; 4 inch, per 100.... 6 00
Marguerite Daisies and Paris Daisies, or yellow Chrysanthemums same price as Geraniums.

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Wanamaker, Ivory, Humphrey, Mutual Friend, Queen, Medusa, Anemone, flowered, Inter Ocean, Oct. Beauty, Lady Slade, Wm. Trelease, H. Balsley, Hallock, Eugene Daledor, Golden Wedding, Source d'Or, Widener, Whildin, Fisher's Torch, Gettysburg, Witworth, Amoor, rooted, \$1.25 per 100; 2½ inch, \$2.50. Mand Dean, Maj. Boaffon, Minerva, Pitcher and Manda, Hicks, Arnold, Gold Hair, W. H. Rand, Rich Dean, Col. Smith, Challenge, Craig Lippincott, rooted, \$2.00; 2½-inches, \$3.00. Hardy Ferns, wild, 10 kinds 1 each, \$1.00.

10,000 fine young LATANIA BOR-BONICA, ready for shifting, Per 100 2-in. pots.....\$5.00
1,000 fine 3 inch PHOENIX RECLINATA, 10 to 12 in. high.....10.00
1,000 fine 3-inch PHOENIX TEN-UIS, 8 to 10 inches high.....10.00
10,000 MERRY MONARCH CHRYSANTHEMUMS, the largest and best early white..... 8.00
All the above in fine No. 1 condition.

EDWIN EAGLE & CO.,
70th & Adams Ave., CHICAGO.
W. C. COOK, MGR.

ALTERNANTHERA

P. Major, well-rooted cuttings 50c per 100, \$4 per 1000, \$7 per 2000.
1000 Geraniums, good assortment, single or double, 2½ pots, \$3 per 100, 200 for \$5, 1000 for \$20.
Fuchsias, single and double, best variety only, 2½-inch pots, per 100, \$2.50.
Petunias, best double fringed 4-inch pots, \$5 per 100.
Pelargoniums, 3-inch pots, \$5 per 100.
Iberis Sempervivens, 2-inch pots, \$3 per 100; clumps, \$45 per 1000.
Begonias, assorted flowering and ornamentals, 2½-inch pots, \$3 per 100.
100 Ivy Leaf Geraniums, double, 3-inch pots, \$5.
Cash with Order.

C. G. NANZ, Owensboro, Ky.

St. Paul.

The past week showed a drop in sales below the previous week. Cold weather, less funeral work and the quiet of mid Lent will account for it.

The Florist Society met at the West Hotel, Minneapolis, on Thursday evening, March 12th. The attendance was very light, and in the opinion of those present would not justify a continuance of the monthly meetings. The society adopted Mr. Swanson's suggestion for holding a fall exhibition, and the committee will proceed to solicit subscriptions and enlist assistance in forming a stock company.

Mr. Souden, with L. L. May & Co., exhibited a vase of Della Fox carnations from Myers & Samtman of Chestnut Hill, Phila., and many favorable comments were heard.

Mr. A. H. Bunde has a promising seedling carnation, a light canary yellow, splashed with carmine.

J. C. Robinson of Waterloo, Neb., was a recent caller. FELIX.

An International Gardening Exposition.

The 60th year of existence of the Hamburg Garteneau-Verein is to be celebrated in 1897 by the installation of an international exposition devoted to gardening in all of its branches, which will last from the end of April until September. It is proposed to include a spring exhibition of about five days' duration early in May, a summer exhibition, lasting about a week, in June, and an autumn exhibition in September, extending over eight or ten days, while various special exhibitions are to be arranged for the intervening periods, in addition to such features as are capable of continuous maintenance through the season.

It is to be hoped that American plant growers and dealers will be well represented at the exposition, not only by displays of decorative plants, but by those of other commercial value and interest. Roomy, well built conservatories are promised, and an adequate list of premiums and medals will doubtless soon be issued. Persons interested in the exposition are invited to communicate with Prof. Dr. E. Zicharias of the committee of arrangements, Hamburg, Germany.

WILLIAM TRELEASE.

LEMON OIL INSECTICIDE,

Used now by the leading Florists.

75c. per quart; \$1.25 per 1/2 gallon; \$2.00 per gallon; \$9.00 for 5 gallons.

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American Beauty, Violet, Bridesmaid,
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LARGE AND SMALL SIZES

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**BREEN'S PATENT
FINGER SPADES.**

For weeding it has no equal. Fitting the finger like a glove almost. The smallest weeds can be extracted without difficulty and preventing the finger from being injured through contact with the earth. It is also splendid for transplanting.

Price, 10c; or by mail 15c.

Wholesale price, \$7.00 per gross, or 75c. per dozen, delivered in any part of U. S. or Canada; half gross orders at gross rates; larger quantities at a reduction. Sole agent for states of New York, Illinois and Penn.

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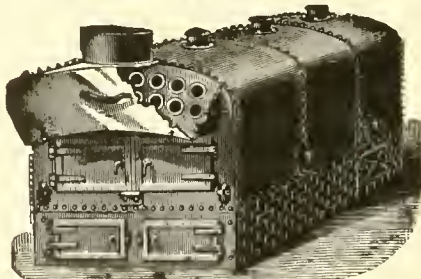
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PUMPING
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Is unreliable because it depends upon the elements for its power; hydraulic rams also depend upon favorable conditions and waste as much water as they secure. Steam pumps require skill and hand pumps demand labor and time. The

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Applied by boiling on small kerosene stove; evaporating pans; painting pipes; special steam cylinders; dropping red-hot iron weights or fire-bricks into narrow pans containing diluted extract; or, by syringing. TRY IT!

Price, 5-gallon can \$5 00
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IMPROVED CHALLENGE

Roller Bearing Ventilating Apparatus.

Thanking our many patrons for their liberal patronage in the past, we come again soliciting your orders in our line for 1896; we have some new improvements to offer this spring, one is a steel chain; this chain is made of steel bar and steel pins, and is one-third stronger than any chain we had heretofore, with our roller bearing automatic locking device, and self-oiling device, and steel chain we challenge the world to equal us in ventilating apparatus. Please write us for 1896 catalogue and get our price before you place your orders.

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GLASS AT ONE-TENTH THE
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Cut this out. It will not appear again.

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LEMON OIL INSECTICIDE SOLUBLE IN WATER.

Destroys—Scale, Mealy Bug, Thrip, Red Spider, Mildew, Black and Green Fly.

HIGHEST REFERENCES.

1/2 Pint 25c.; Pint 40c.; Quart 75c.; 1/2 Gallon \$1.25; Gallon \$2.; 5 Gallon Keg \$9.; 10 Gallon Keg \$17.50.

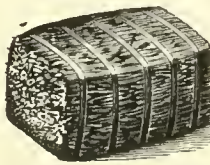
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Above always in stock. Give us a trial order.

Z. K. JEWETT & CO., Sparta, Wis.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns

Grand Rapids, Mich.

The Florist Club held an enthusiastic meeting at their new quarters in the Eagle Hotel, President Henry Smith in the chair. The attendance was the largest of the year. J. A. Creelman read an instructive essay on fuel, stating there were seven methods of heating greenhouses: wood, coke, coal, gas, oil, peat, and last but not least to be considered, electricity. It was followed by a general discussion, Geo. Crabb stating that crude oil was preferable if to be had at a reasonable price; that with this kind of heat better plant growth was made. J. K. Johnson gave his satisfactory experience with smokeless coal.

There was a general discussion on floricultural societies, their aims and objects, and from the number taking part in the discussion it would show that ours was a very much alive society. It was decided to hold the next chrysanthemum show November 10 to 14 at Lockerby Hall, M. B. Stover secretary.

Mr. Chapman exhibited a vase of well-grown Daybreak carnations. Mr. Crabb, Mr. Cunningham and President Smith also had vases of carnations, hyacinths and swainsona on exhibition.

The general committee will meet next Thursday evening with Mr. Crabb and decide who will aid them in the fall show. After a lively three hours session the club adjourned. EVELYN A.

Heating.

GENTLEMEN:—Can any reader of the FLORIST tell me whether it will work all right to place boiler 150 feet away from the houses it is intended to heat with hot water. The leaders to be 4-inch pipes running through connecting house covered with asbestos, the heating pipes to be 2-inch. I can give a rise of about 4 feet from boiler to place of connecting the house pipes.

How many runs of 2-inch pipes are necessary to heat a house 18 feet wide by 13 feet to ridge by hot water without pressure for roses? EMIL BUETTNER.

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Largest Pump and Hay Tool Works in the U. S.
CATALOGUE FREE.
Write for Particulars, Prices, etc. Ask your dealer for
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Sprays from Bucket or Barrel, 50 FEET.
Made on new Scientific and Mechanical Principles. Send for FINE Catalogue which will make it plain to you that I have the SPRAYER you want.
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Send for our new price list, with extra discounts. All of our Pots from 7-inch and upwards have our Patent Excelsior Bottom, which is a great advantage as it insures perfect drainage.

A FULL LINE OF BULB PANS.

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Every user of Flower Pots should correspond with us before purchasing elsewhere. Our facilities are unequaled.

A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

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Standard Flower Pots.

OUR POTS ARE OF THE BEST QUALITY.

We ship all goods from Cincinnati, guaranteeing lowest freight rates and prompt delivery.

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Ware bright red, and First-Class. Send for cut prices.

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FERN PANS AND PALM POTS.

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Write for Price List. Address

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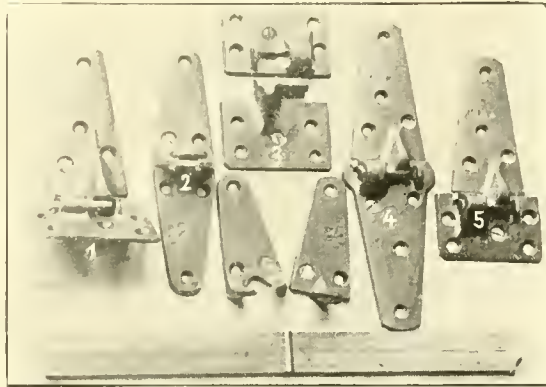
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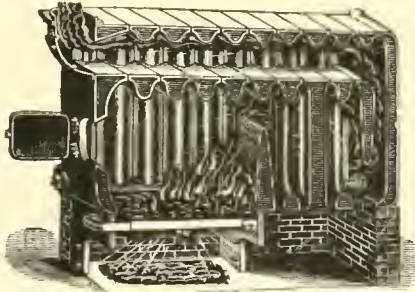
Here We Come Again and you can't head us off.

WITH SOME
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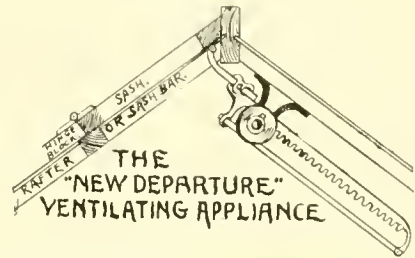
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Warranted not to rust fast, break or wear out. Send for description. Send 10c. to pay postage and get a sample of them.



The Champion Water Heater.
A perfect boiler for greenhouse heating

For a description of these specialties send to



Is the most simple, most durable
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Coming Into General Use

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WHY?

- Because they give entire satisfaction.
- Because they are $\frac{1}{3}$ to $\frac{1}{2}$ cheaper in price.
- Because they are made simple and strong.
- Because they operate your house from either end or centre.
- Because they operate houses 200 feet long with ease.
- Because one machine operates sash both sides ridge.
- Because they will last for years without any repairs.

We guarantee any breakage during five years' use. Write us; we will furnish you references, circulars, estimates, and save you money.

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All Steel. No Coils or Cast Iron Sections. SEND FOR CATALOGUES.

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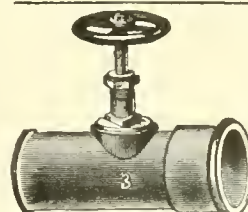
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MAIL LOCK THE DOOR BEFORE THE HORSE IS STOLEN DO IT NOW.

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News Notes.

GLOVERSVILLE, N. Y.—G. W. Pool, Jr. has just finished building a greenhouse.

HOLYOKE, MASS.—The "Rosemount" greenhouses of E. C. Taft have been sold to J. W. Beach and E. D. Shaw.

HOLYOKE, MASS.—On the evening of March 5 Mr. H. R. Smith addressed the Horticultural Society on hardy roses.

NORTHAMPTON, MASS.—The Horticultural Society will hold a spring exhibition in the City Hall on March 25th and 26th.

WELLSTON, N. Y.—The building in which was located F. V. R. Stillman & Co.'s branch floral store was burned on March 5th.

BENNINGTON, VT.—L. C. Holton has purchased the business of the firm of L. M. Holton & Son, of which he was the junior member. The business will still be carried on under the old firm name.

RAHWAY, N. Y.—The steam boiler in greenhouses of George Harvey exploded on the evening of March 8th, completely demolishing the building and ruining the contents. Loss estimated at \$2,500.

TERRE HAUTE, IND.—Cards are out for the marriage of Mr. Charles A. Hunt, second son of the late M. A. Hunt. The bride is Miss Grace King Button and the date for the wedding is March 31.

COLUMBUS, O.—Hatton Bros. are putting in a cut flower department in connection with their drug store. Karl Brown is manager and is also interested. He was formerly with A. W. Livingston Sons.

NORTHAMPTON, MASS.—The statement that Jas. A. Fitzgerald is to take charge of the greenhouses and grounds at Smith College is an error. Mr. Edward J. Canning is still head-gardener and Director Wm. F. Ganong states that no change is contemplated.

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HOT-BED SASH.

NOT GLAZED, 1 3/4 inches thick.

THESE SIZES IN STOCK:

3 ft. x 6 ft.....3 rows, 10 in. glass.
3 ft. 3 in x 6 ft ...4 rows, 8 in. glass.

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FIRST-CLASS.

Write for prices, delivered.
State quantity wanted.

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LOCKLAND, Ohio.

CLEAR CYPRESS

Greenhouse Building Material.



We are now located at our new factory and have the largest and best equipped plant in the west. Have the latest and best improved machinery, (especially adapted for this line of work) and carry constantly a full and complete stock of

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This enables us to fill all orders more promptly and satisfactorily than any one in this line.

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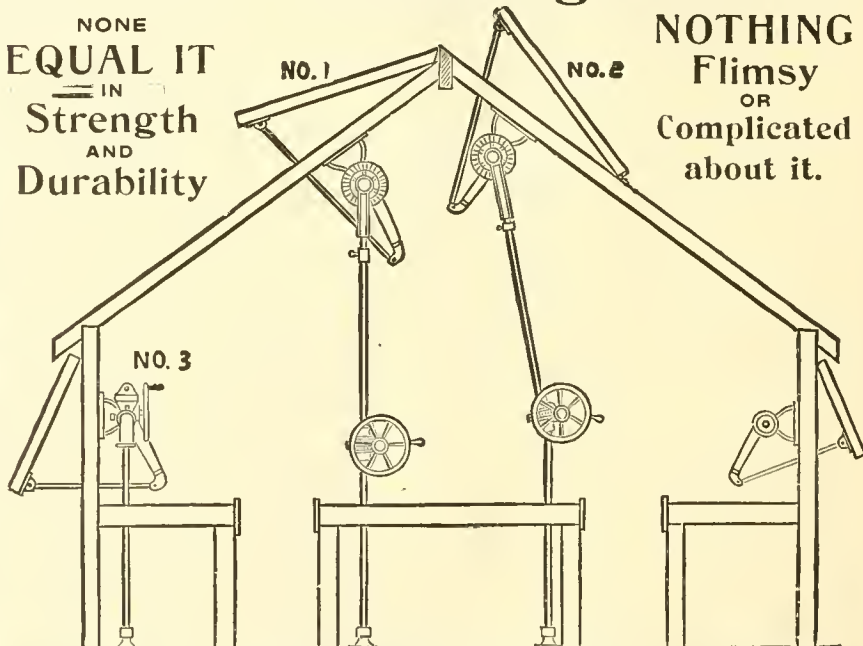
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CHICAGO, ILL.

Standard Ventilating Machine.

NONE
EQUAL IT
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AND
Durability

NOTHING
Flimsy
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Complicated
about it.



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CALIFORNIA RED CEDAR

NEVER DECAYS.

A. DIETSCH & CO., 619 Sheffield Ave.,

MFR'S OF RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.

CHICAGO.



GLASS

which is absolutely perfect for modern greenhouse construction.

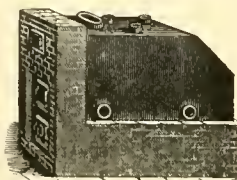
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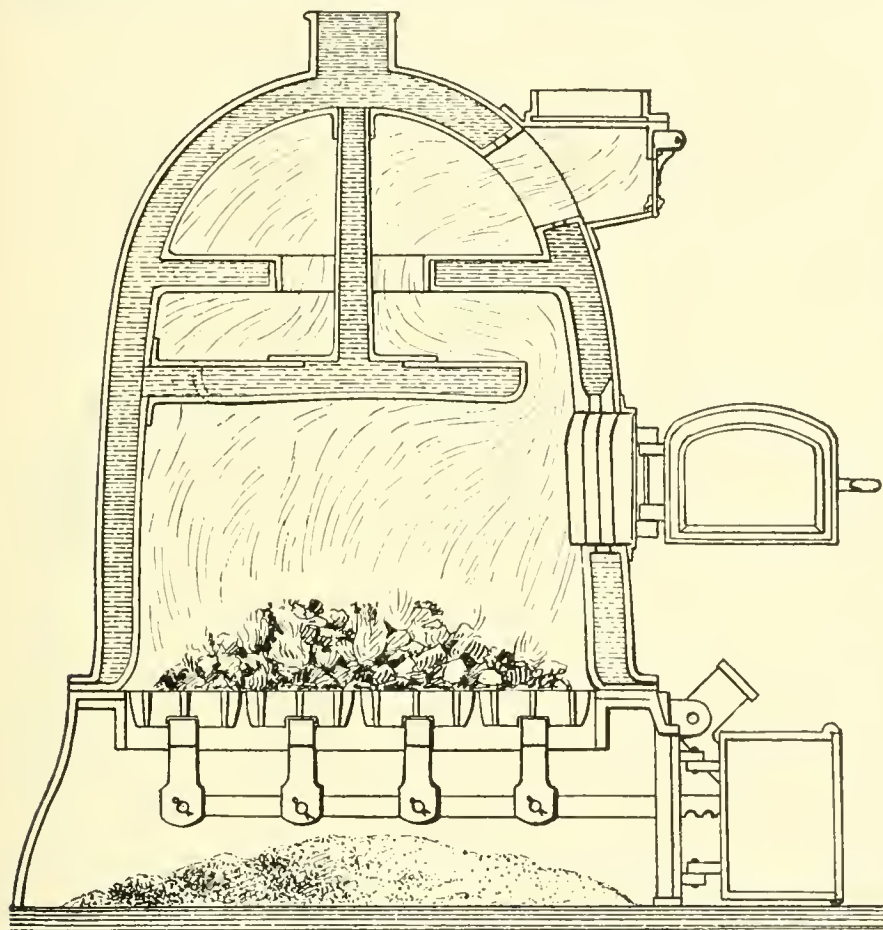
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VENTILATING APPARATUS.

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 Mr. W. J. Power, Westbury, Mass.
 Mess. Gibson Bros. Newport, R. I.

Do we build Iron Greenhouses? Well, yes! Just finished 60,000 Sq. ft. Glass for Schenley Park, Pittsburgh,

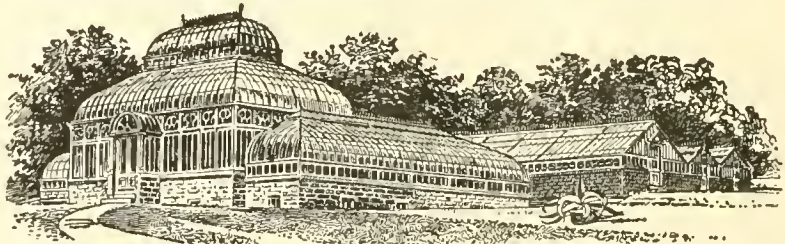
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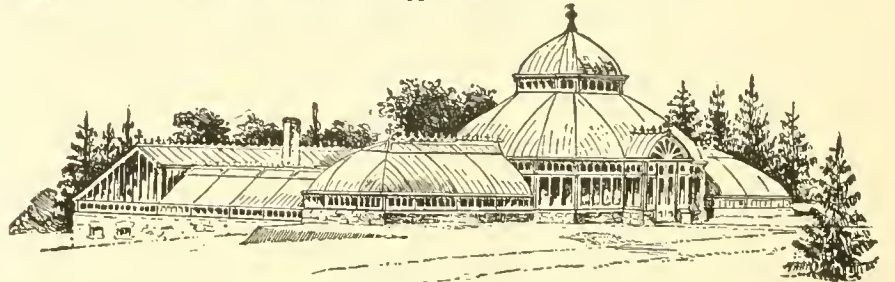
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THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships than to touch Unknown Seas."

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secretary; H. B. BEATTY, Oil City, Pa., treasurer.
The twelfth annual meeting will be held at Cleve-
land, O., August, 1896.

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PRESIDENT SCOTT is improving rapidly,
and it is now expected that he will be able
to be about again by Easter.

San Francisco.

Trade the past week has been rather
quiet, nothing of much importance going
on. Prices are a little low, although in
some things they hold up pretty well; this
is especially true of roses, which seem to
hold their own very well so far. Harrisii
is selling very well at \$2 per dozen.
Nearly all bulbous stuff is over for the
season. Carnations are of very good
quality, Scott in particular is a great
favorite in the market this year. Smilax
is rather scarce, although there is lots of
asparagus to be had. We note some very
excellent peonies in from some of the
growers. They are of an immense size
and bring \$3 per dozen.



Poor Growth of Roses.

A subscriber from Iowa signed B. wishes
to know what is the matter with his
roses; they were planted in August in
solid beds, have been given a night tem-
perature of 58° to 62°, were given what
was considered good soil, and have had
the best of treatment, but have failed to
make a satisfactory growth. Considering
the long journey, the specimens
arrived in a very fresh state. The Bride
and Bridesmaid marked No. 1 did not
have a very sickly appearance, the foliage
though small was clean and bright, and
the roots appeared to be perfectly healthy.
Considering the length of time they have
been planted they should have made a
stronger growth. The indications are
that the soil is impoverished, the tempera-
ture also is too high; 58° should be con-
sidered the maximum night temperature.
Would advise the feeding of these plants
in a systematic manner, unless B. is cer-
tain that there is no lack in this direction;
being a practical rose grower with con-
siderable experience, it will not be neces-
sary for me give any directions as to what
fertilizers should be used and how to use
them.

The Perle plant, though otherwise
healthy, was slightly affected with an-
thraxnose, not so bad but that it might
be cured by a few applications of the
ammonia-copper solution. The formula
I have used for the past five years was
recommended by Prof. Halsted of the
New Jersey Agricultural Experimental
Station and has proved generally satis-
factory. It consists of ammonia (FFFF)
one quart, carbonate of copper 3 ounces,
water 24 gallons. Syringe the affected
parts thoroughly once a week.

The Bride and Bridesmaid marked No.
2 and one of the Cath. Mermets had the
roots completely matted up with eel-
worm; it is hardly possible to restore
such plants to health, the specimens sent,
however, were probably the very worst
plants that could be found, in which case
it may be worth while trying a little ex-
periment. So much has been said on the
subject of eel-worms and their origin, and
so conflicting are some of the statements
made that one feels afraid to venture so
much as a suggestion. Some time ago I
came to the conclusion that the eel-worm,
though a swimmer, did not enjoy too
much water, he is at home on high dry
land; and seldom takes up his abode
where opposite conditions prevail; in

other words, eel-worm is seldom found in
soil that is naturally wet, at any rate this
has been my experience. I have known
plants that were badly crippled with the
pest restored to health and vigor by a
persistent application of the cold-water
cure. It seems contrary to common
sense to drench plants every day and ex-
pect them not only to survive the ordeal,
but to commence to thrive, yet such has
actually happened. However so late in
the season there is comparatively little
chance of getting much from plants badly
affected, and the wisest course to adopt
now will be to make sure of healthy
stock and clean soil for next season.
Cuttings from diseased plants can not
reasonably be expected to be in good
health, and soil that produced the pest
this season may be expected to do the
same next if used. ROBT. SIMPSON.

Black Specks on Rose Foliage.

Enclosed find a rose leaf full of small
black specks. I would like to know
what it is. Through a small glass they
look like small puff balls. They have
spread all over one bench of plants, but I
can't see that they have injured the plants
yet. C. H. HOLLIED.

Kansas.

I have seen small black spots on rose
foliage similar to those above mentioned,
when the atmosphere in the house was
heavily charged with ammonia, as
happens sometimes after mulching with
too fresh or fiery manure. If this has not
been the cause in the present case I am at
a loss to account for it, but in any event
I think there is no cause for alarm.

ROBT. SIMPSON.

Soil for Roses.

I would like to have the opinion of a
rose grower on black prairie soil for roses,
that is rotted sod from such soil with a
third cow manure added. Would it be
suitable for such roses as Perle, Bride,
Wootton, Bridesmaid, Meteor, Hoste,
Sunset and Beauty? It seems to become
exhausted very quickly. MANAGER.

I have seen very good roses growing in
the loose black soil found in some parts
of Illinois, but it is not considered an ideal
soil for roses. As "Manager" says, it
quickly becomes exhausted; it also lacks
the adhesiveness which characterizes good
rose soil. A brown or yellowish loam
more inclined to clay than sand will gen-
erally produce the best results. Where
the soil is in a fairly rich state it will not
require so much manure as one-third,
especially if the latter is of good quality;
a better compost would be three or four
parts sod to one part cow manure.

Soil in our business is of the first im-
portance, and yet we have known of men

investing large sums of money in greenhouse establishments, erecting the best of houses, with every convenience and improvement that could be suggested, and who have found out afterwards to their cost that the soil nearest to them that was fit to grow roses in was distant from the greenhouses several miles. It seems to me that our first thought in projecting a new greenhouse plant should be, "Is the soil adjacent to me suited to the requirements of the plants I expect to grow?" And unless we are able to answer in the affirmative, no matter what the other inducements may be, it will be good policy to locate elsewhere where the soil conditions are favorable.

ROBT. SIMPSON.



Fowler's Solution for Carnation Rust.

I do not wish to be hypercritical, but I cannot refrain from calling attention to some gross errors which have lately appeared in the papers in regard to the value of arsenic solution as a cure for carnation rust.

In the first place the "druggist's prescription" given by Mr. Hill on page 810 of the *FLORIST*, has, in *Florists' Exchange* and *American Gardening*, been confused with "Fowler's solution." The formula for Fowler's solution (see U. S. Dispensatory, 17th Ed., p. 820) is as follows:

Arsenious acid..... 154 grains.
Bicarbonate of potash..... 309 grains.
Compound spirits of lavender 1 fl. oz. 7m.
Water sufficient to make..... 33 fl. oz. 330m.

This makes a 1% solution of arsenic.

A competent pharmacist of Jamaica, N. Y., assures me that Mr. Hill's "druggist's prescription" is an impossible formula; even as corrected on page 840 of the *FLORIST* it is an impossible formula; 616 grains of arsenious acid cannot be held in solution in 5 ounces of water. It would make a solution about twenty five times as strong as Fowler's solution.

Mr. Hill recommends syringing the plants once a week with Fowler's solution, using one ounce of the Fowler's solution to eight gallons of water. He says on page 810 of the *FLORIST*: "Three applications cleared up some of our worst cases." Appearances have deceived Mr. Hill. The disappearance of the rust must have been due to some other cause. It could not have been due to the treatment with Fowler's solution, because the strength used is entirely too weak to check germination of the spores. I have made germination tests, using Fowler's solution in various proportions, and I find that rust spores immersed in a solution containing one part of Fowler's solution to 1,000 parts water (which is a trifle stronger than the solution recommended by Mr. Hill) germinate as vigorously as do spores in pure water. A 1-500 solution does not check the germination, and a 1-300 solution only slightly; but in a 1-100 solution spore-germination is considerably checked. This last strength may be found successful as a preventive of rust, but I have no faith in it or any other external application as a cure for rust. Spraying may prevent the rust from spreading to healthy plants—nothing more. The vegetative portion of the



PAN OF WHITE HYACINTHS TRIMMED WITH PALE VIOLET CREPE PAPER AND WHITE SASH.

rust fungus is within the plant where it is out of the reach of fungicides. The brown powder found in the pustules on the leaves is composed of the spores. Now to attempt to cure the rust by killing these spores is like trying to kill out Canada thistles or quack grass by destroying the seeds.

The strength of arsenic solution recommended by Mr. Hill will not injure the foliage in the least—much stronger solutions can be used with safety. I sprayed a plant thoroughly with a 1-50 solution and no injury resulted. But Mr. Hill's statement that it "kills the diseased leaf outright" and yet does not injure the healthy foliage, is surely an error.

So far as we at present know, the best treatment for carnation rust is to spray once a week with a solution of copper sulphate (2 pounds copper sulphate to 45 gallons water) as a preventive. The management of the greenhouse is most important. It may be that Fowler's solution used in the ratio of 1 to 100 (about 1½ oz. to 1 gal. water) and applied once a week would be as good as the copper sulphate, but it would be more expensive.

In short, arsenic solution has no special value as a preventive of rust and certainly none as a cure. The dangerous character of rust has been exaggerated, but it is a bad disease and florists should use due care to propagate from healthy stock, spray regularly, and beware of

varieties which are much subject to rust.
Jamaica, N. Y. F. C. STEWART.

ED. AM. FLORIST:—I gave the result produced by the application of Fowler's solution in our houses and on badly infected varieties; the result is the varieties are clean and free from rust, whereas they were badly diseased and practically incapacitated for flower producing. The solution as used under the formula not only destroys the spores on the outside of the leaves but it follows the puncture made by the fungus and kills the rust inside the coating of the leaf. Your correspondent's assertion that no harm can come from the use of arsenic would cause untold harm, as we know from experience. The solution will penetrate the clipped ends of cuttings and will burn and wither the leaves wherever it touches an incision.

Mr. Stewart is wrong in his diagnosis of the black rust, for it enters the leaves and commences at once to propagate spores, the spores thus born find exit and in turn find other carnation growth to puncture and feast upon. If the spores are killed the trouble is ended so far as those particular spores are concerned.

In support of the hypothesis that the fungus punctures the leaf from outside, experiments show that certain varieties when grown under glass during the entire season produce a harder skin to the leaves



PAN OF PROSERPINE TULIPS, WITH WHITE CREPE PAPER AND WHITE SASH.



PAN OF DAFFODILS, SUPPORTS TIED WITH NARROW RIBBON, SASH OF WHITE, YELLOW OR GREEN SATIN.

than when grown in the open air, and where varieties are thus grown the absence of rust is strikingly apparent, and if not entirely absent its presence is reduced to a minimum. I firmly believe we are warranted in using arsenic for the annihilation of rust, and hope we may hear from your readers who are trying or who have tried the solution.

Personally, I stand by what I said at the New York meeting, and reiterate what I then said. To be sure it will take time and application to rid our structures of this evil thing, but I believe its day is past and that we may safely trust to the application of arsenical solution to exterminate the evil. I am not versed in chemistry—much to my sorrow—but I do know that the riddance of rust has been so apparent that it does not admit of question. The solution does the work.

I am hoping that some of our chemists at the experimental (U. S.) stations will give us the benefit of their experience after trying the solution.

I am so busy at the present time that I cannot give a summary from my notes, but hope to do so later. E. G. HILL.

Yellow Carnations.

Please tell me the best way to propagate from a yellow carnation. The plant I have reference to is a common yellow one, but on the same flowering stem there has come a distinct different variety on several occasions—just as different from the yellow as white is from red—and I would like very much to perpetuate it. C. K.

There is no clear yellow carnation in cultivation; all are more or less striped and mottled with pink to a deep crimson, and I believe my guess will not be far from the truth when I say the color of this sport is identical with the color of the stripes in this yellow variety. This is a very common occurrence in striped or var-

iegated varieties. If C. K. would see the freaks cropping out in a house full of seedlings he would not pay so much attention to a sport. But to answer the question: Propagate from this particular plant or as much as possible from the part of the plant that furnishes the sport. Grow them for one season and see the results. Probably there will be some plants more inclined to sport. Take cuttings again from those that show the most tendency to run into the sporting color, and keep on in this selecting, and you may succeed in driving the yellow color out. At the end if you think you may have succeeded you may find yellow sports coming in your new color. I have no faith in carnation sports.

FRED DORNER.

Trimming Easter Plants.

The sale of flowering plants at Easter has increased enormously within a few years, and there is no doubt that this demand will continue to grow, not only for Easter and other special occasions, but for regular every-day trade. The people of this country have only begun to appreciate the usefulness and beauty of plants about the home. It only remains for our plant growers to study to produce plants in such manner and under such conditions as will insure their continuance as long as possible in the changed atmosphere and trying surroundings of the dwelling house. When buyers realize that the plants they purchase can be depended upon to keep their freshness and beauty beyond the few hours or days that limit the existence of too many of the florists' productions of to-day, then will come a revival in the plant trade, of which the present Easter demand is but a mere suggestion.

Great care should be taken that a plant when delivered to the customer is as clean and neat as possible, and every disfigurement in the way of defective leaves and

all traces of untidiness removed from both plant and pot, so that its appearance will be in keeping with all its surroundings in the parlor or drawing room. As with a box of flowers first impressions count for much. Every dainty touch adds to the pleasure of the recipient and will be sure to bear good fruit in the future.

Our illustrations will give some idea of how the progressive retail florists of New York City seek to accomplish this object. Crepe tissue paper and ribbon tastefully used and not overdone can be made to add greatly to the attractiveness of an Easter plant gift. Take for instance the pan of white hyacinths, and who will say that it is not more presentable in its dress of pale violet tissue and white sash than it would be without? Besides, this adds materially to the price for which the arrangement may be sold, and the expert decorator is well repaid for material and time. The pot of twenty-five lily of the valley and the little Otaheite orange, by the addition of a wrapping of white crepe paper tied with a strand of narrow green ribbon, are doubled in value at once. The daisy needs no decoration, but its delicacy is enhanced by a simple covering for the rough pot. This is not so necessary in the case of the moss rose, where a bow of rich dark olive green satin ribbon gives just enough finish. Plants with stems which are apt to be bare and ungainly, such as the laurel, rhododendron, and metrosideros, are sometimes dressed well up on the stem, care being taken to use only colors that match the tints of the flowers. The little trailing strands of baby ribbon as shown in the pot of lilies, the araucaria, and double flowering almond, are daintily effective. The perfect form of the araucaria forbids any obtrusive trimming, and the characteristic Japanese effect of the flowering almond must not be interfered with. Overdoing is the fault to be especially avoided with such subjects. On the other hand the white azalea shows a more elaborate

trimming, which is in keeping with the formal bouquet-like character of the plant. Pale blue was the color combined with white in trimming, but light pink or any other soft color would be equally appropriate. The retailer pays for a plant such as this \$15. When trimmed it sells for \$25 or \$30 at retail. Where confinement is needed to keep the plant in shape, as in the case of the pan of daffodils, the supporting sticks are wound with white tissue or ribbon, and connected with a strand of narrow white ribbon. The widesash in the picture was white, but either yellow or olive green ribbon are equally effective with daffodils.

To the kindness of Mr. Julius Roehrs, of Carlton Hill, N. J., we are indebted for the use of the plants illustrated and assistance in the work. The trimming was done by Mr. A. Warendorff, of 1213 Broadway, New York, a gentleman who as an expert in floral art has but few peers in this country. Some of the plants shown in the photographs were not fully in bloom, but were the best that could be obtained at the time.

Spring Exhibition of the Massachusetts Horticultural Society.

This great event, to which the horticultural fraternity have been looking forward with pleasant anticipations opened at Horticultural Hall, Boston, on Tuesday, March 24, continuing four days. The elements were not propitious at the outset, the thermometer registering freezing weather, and on this account the orchid exhibitors, whose displays have in the past added so much to this occasion, kept their pets at home. Quite a number of plants that had been insufficiently packed showed the effects of their bout with Jack Frost on their trip to the city. Another drawback in a most important department of the exhibition was the prevailing scarcity of carnations in this market. Neither of carnations nor roses was the display nearly as extensive as one year ago, the rose men being also off crop at present. Cinerarias were also less prominent as a feature than on former occasions. Yet with all these lacks the show was pronounced by all to be the finest altogether on record. First and best of all were the cyclamens. There were nearly two hundred plants shown in 7 and 10-inch pots, of which Mrs. B. P. Cheney, John Barr, gardener, showed seventy-five in wonderful perfection. N. T. Kidder, Wm. Martin, gardener, D. Nevins, A. McKay, gardener and H. H. Rogers, Jas. Garthly, gardener were all in it also on cyclamens and the result was a surprise and delight to everybody. Blooms on several plants from Mrs. Cheney measured nearly six inches from tip to tip when expanded.

The Bussey Institution made an enormous display of promiscuous flowering plants and bulbs, filling one table six by forty feet and another wall table of equal length with cinerarias, tulips, hyacinths, azaleas, freesias, anemones, narcissi, lily of the valley, ericas, andromedas, etc., besides two great groups of forced hardy herbaceous plants and shrubs in the lower hall. W. S. Ewell & Son were also in evidence with a collection of flowering bulbs, completely filling the stage and a table forty feet long in addition. In this group was to be found almost everything in the line of commercial bulbs in pans and pots and they made a big show.

Hyacinths were as usual a prominent feature, Dr. C. G. Weld, K. Finlayson, gardener, E. S. Converse, D. F. Roy, gardener, J. L. Gardner, Wm. Thatcher, gar-



LILY OF THE VALLEY. WHITE CREPE PAPER AND NARROW PALE GREEN RIBBON.

dener, and Miss M. S. Walker all contributing. Dr. Weld also staged freesias, ixias, auriculas and jonquils, and was the principal exhibitor of hard-wooded flowering plants such as boronias, acacias and epacris. Ixias from H. S. Rand, tulips from Miss Walker and E. S. Converse and lilies from E. S. Converse and B. P. Cheney were also worthy of notice. Cinerarias were hardly up to past records in size and number, but the quality of the strains was high throughout. They came from J. L. Gardner, Dr. C. E. Weld, E. S. Converse, B. P. Cheney, H. H. Rogers and J. S. Bailey. Outside of the Bussey Institute the only azalea exhibitors were C. E. Weld, Warren Ewell, Jas. Comley and Norton Bros. It is somewhat surprising that with the present abundance in the market of neat well-bloomed azaleas that this department of the exhibition makes no better showing. Primulas from C. E. Weld, D. Nevins and J. L. Gardner were very good, and David Nevins' violets simply incomparable. He has no equal here in this line. James Comley beat his record and surprised the neighbors with a fine group of hybrid roses, pot grown, among them being a well bloomed plant of that most unmanageable variety Her Majesty.

Undoubtedly the greatest attraction in the hall was Jackson Dawson's plant of Crimson Rambler rose. To adequately describe the beauty of this plant with its thousands of brilliant flowers is impossible. Some of the trusses carried as many as forty-five flowers and buds. The plant is but two years old from the graft and was not started into growth until January 1. Mr. P. O'Mara, referring to it said that Mr. Dawson had rendered the nurserymen and dealers of the country a priceless service in thus demonstrating to the public the beauties of this rose.

In the cut flower section three great vases of roses were prominent. They were hybrids from D. Nevins and C. V. Whitten, and Mrs. Pierpont Morgan

from J. N. May, which showed up grandly. Mr. Nevins also filled a table six by ten feet with splendid hybrid roses. James Comley had a very large collection of roses, camellias, etc. On tea roses Wm. Elliott showed up some vases of superb Brides, Bridesmaid and Gontiers, which were grown at his Newtonville houses by John Pritchard, the foreman in charge. C. V. Whitten, George M. Anderson and Oakes Ames, Carl Blomberg, gardener, were also represented in the rose display.

Carnations White Queen, Eldorado, Crystal, Nicholson and others were well shown by Wm. Nicholson, and there were smaller groups from F. A. Blake, W. H. Elliott and G. M. Anderson. As on violet plants D. Nevins was away ahead on violet flowers. H. S. Rand and W. C. Winter also showed violets, Mr. Rand's collection including six varieties.

Visitors to the exhibition were P. O'Mara, New York, J. N. May, Summit, N. J., J. S. Cowles, Newport, R. I. and P. Vos, Sassenheim, Holland.

Prize list will appear in next week's issue.

Sowing Sweet Peas.

Looking through the new catalogues I run across several admonitions to bury sweet pea seed deep! deep!! deep!!! Why? "The roots delight in a cool, moist soil." But what has deep or allow planting of seed to do with a deep or shallow root system of the resulting plant? The farmer has no crop that roots so deeply as red clover, and the seed is sown on the surface and washed in by spring rains.

If sweet pea seed is planted too deeply in early spring it is apt to rot. "Blank's sweet pea seed is no good. I sowed half a pound and didn't get a single plant," was the substance of several complaints made to me last season. They had followed "directions" and planted early and deep. I advised planting the "directions" deep, and the seed early and shallow.

Sowing in a trench and covering lightly



MOSS ROSE WITH BOW OF OLIVE GREEN SATIN RIBBON.



OTAHEITE ORANGE, WHITE CREPE PAPER AND NARROW PALE GREEN RIBBON:

works nicely—sometimes. It makes it easy to smother small weeds when the peas are well up; but, on the other hand, when they are just breaking through it is impossible to cultivate with a horse without covering a good many plants. In sowing most of our sweet peas the past season we made a mark with the corner of a hoe, dropped the seed in this mark and firmed it thoroughly in the soil by tramping. As the soil was very loose the result was a well defined trench. About the time the choice varieties were sprouting we had a tremendous downfall of rain that turned each little trench into a “babbling brooklet.” When the storm was over some of the seed was uncovered; some was washed into adjoining rows to send up rogues all summer; and over Blanche Barpee and other choicest varieties was a deposit of three inches of mud. The most satisfactory plan I have tried was level planting; putting four or five seeds in a place, far enough apart to allow striking through the row with a narrow hoe.

GEO. ARNOLD, JR.

Rochester, N. Y.

I see that our friend Geo. Arnold is on a sweet pea heresy hunt. Good! I wish we might have his comments right along. He illustrates the first law in the code of all horticulture, which is that every man shall get enough intelligence and experience to be a law unto himself. In preaching the gospel it is safe to point to one pattern, but nothing else in this world can be so simplified. We feel like the man who was asked which of two roads to take, who replied, “Whichever one you take you will wish you had taken the other.”

Mr. Arnold says he finds the admonition in the catalogues to “bury sweet pea

seed deep.” Now I don’t know of any catalogues that say “bury,” but they do say *plant*, and *depth* is certainly a necessary point. One of my neighbors once, a German, and a very successful gardener, taught me not to plant culinary peas deep in early spring. After raking his fresh ploughed garden he pressed his rake stake into the soil just about enough to mark the row, and sowed his first early peas in that mark, covering them about half an inch. In about three days they were up, and as they grew the soil was hoed toward them. And I never saw peas do better. Now it is possible our sweet peas have lived and thrived only in spite of deep planting, but I still think the reasons for what we call deep planting are valid.

But I ought to say that the blight has become such a serious problem with me that I shall abandon the trench method this year, and I shall just hollow the ground about two inches before planting, putting the seed about one inch deep in the hollow. And I shall not fill the earth in at all before the tenth of June. But this is simply an experiment to avoid the blight, which I fear is largely caused by the trenching method, and by filling in the soil about the tender vines. Where people are not troubled with the blight, I advise them to follow the old method of planting four or five inches deep, but of covering at first only one inch, and filling in as they grow. And why deep planting? They should be planted from three to six inches deep. I know of no sweet pea expert who plants less than three inches deep. Mr. Eckford’s rule is to “draw a drill about three inches deep, sow the seed thinly, and cover with two inches of soil, leaving the drill hollow, gently tread in if the ground be dry, go

along the row with one foot on each side, treading and making firm for a distance of 18 inches on each side the row.” But much depends on the heaviness of the soil, and whether you have facilities for thorough watering.

Mr. Arnold knows that catalogue rules are made for that unskilled public who follow rules blindly. With his constant oversight of his vines, and facilities for warding off a drouth, he may have excellent results from shallow planting, but catalogue rules are not for him, but for that generality of seed patrons who either slight their planting or neglect their gardens when they most need care. I have tried to test the rules by the reports that I get daily from everywhere; but the latter I receive are about equally divided between glowing accounts of success and dismal wails of failure. One day it is from Canada, then from Alabama, then California, and then Massachusetts, and all say, “Directions followed.” I often feel like saying, with Mr. Arnold, “Bury the *directions* deep.” It is necessary to shout two three things at people to get them to do the work thoroughly. I know that people who will let seven days go by in cut-worm season, without going to look at their row, will let a drouth do its mischief in the same way; but they do stand some chance of picking a few blossoms if they have planted deep. Of course the stock argument for deep planting is that the sweet pea must beat its best in July and August when the midsummer drouth and heat will most sorely try them. But there is also this reason, that deep planting helps to prolong the season of bloom.

Mr. Arnold reasons along the line of nature. If I wanted to follow nature’s plan of letting my vines come into quick

bloom, and of going evenly to seed, in a natural way, I should plant as near like nature as possible. But we bend nature to our purposes. We want to keep our vines growing and blooming clear beyond the season when they would naturally mature. Mr. Arnold will find that deep planting causes root growth to go on while the vines prolong their season of bloom.

The rule of deep planting, or something equivalent to it, is especially applicable to the interior of this country. My observation is that along the sea coast it is a simple matter to have fine sweet peas, also along our northern border and Canada, and especially along the Pacific coast. And where there is a naturally rich alluvial soil in the west and north-west people are enthusiastic over their sweet peas. But in our interior, where the soil is light or worn out, people are apt to starve them by using rank manure and by neglect, and they are not strong enough to stand the extremes of summer, and deep planting is a safeguard against their drying up. In such a case as that the rule would be for the lazy and the ignorant man, and not for Mr. Arnold.

W. T. HUTCHINS.



Treatment of Stanhopea.

In reply to E. C. N.'s inquiry as to his stanhopea not flowering it would be much easier for us to give decisive instruction if we could see or know the state of vigor and health of the plant in question. Presuming that the inquirer has not made a mistake in naming his plant a stanhopea, as we have several species of orchids resembling it in growth and general appearance, I may venture to say that a specimen strong enough to produce from two to four growths a year, if in a healthy condition, ought to be strong enough to also produce from two to four flower scapes annually, provided it gets the proper care and treatment. An old and esteemed friend of mine was in possession of a rather small plant of *S. insignis*, which he considered too weak for flowering, and although grown in an open basket, he had it placed on the bench among other plants, instead of suspending from the roof, where it remained for some time, and when in spring one day he took it up for the purpose of renewing the mossy topdressing he found to his chagrin several decayed and undeveloped flower spikes smothered below the basket. In other instances I have seen spikes decay among the potting material, not being able to find a convenient opening through the mass of crocks and charcoal placed at the bottom of the basket for drainage. The same trouble may occur when the basket is disproportionately deep. As Mr. N. says he has his plant in moss with plenty of broken pots and pieces of charcoal, last year's flower stems may have perished inside of the basket, and if he would examine the latter he may find the remains of flower scapes in among his drainage. However if this should not be the case, a few hints on the general culture and requirements of stanhopeas may assist him in better success another season.

Shallow and very open baskets are necessary for them, either sphagnum or



DAISY IN 8-INCH POT. WHITE CREPE PAPER TIED WITH NARROW RIBBON.

fern roots alone or both mixed are good material to grow them in, but the drainage composed of broken potsherds and lumps of charcoal should not form a compact mass, where the roots only could penetrate into the interstices. The stout and fleshy flower spikes most always grow nearly straight downward, and should find ample openings between the drainage to grow through without being compelled to turn much aside in either direction. The plants want a plentiful supply of water, abundance of heat and moisture in the air, and a rather shady situation while in actual growth, but as soon as growth is completed they require a decided rest by being kept rather dry at the roots, allowing only enough water to keep the pseudo bulbs from shrivelling. Stanhopeas are free growing plants, having furrowed pseudo-bulbs surmounted by one large plaited leaf of dark green, 6 inches wide and 12 to 15 inches long. The scapes or flower stems grow downward from the base of the bulb, and they are all considered very free blooming orchids of very easy culture. Most of them are highly perfumed, but unfortunately their flowers are not lasting, though in large specimens this fault may not be noticed so much because a succession of flower scapes is produced for a month or more, and no collection should be without a few of them. Their flowering period varies from July to October, and their waxy flowers are exceedingly beautiful and curious. A good many varieties are in cultivation, all of them are desirable. An albino in our collection with flowers as large as those of *S. tigrina*, and which I have

never seen anywhere else, is waiting to be named by somebody. J. B. K.

Floriculture in Mexico.

Mr. J. M. Jordon, of St. Louis, recently enjoyed a trip through old Mexico, and in a paper read before the St. Louis Florists' Club said:

"The City of Mexico has quite a number of nice parks, or plazas, as they call them. Having learned that every morning early there is a show of flowers at what they call the 'Flower Market,' which is in one of the parks near the Cathedral of Quadalajara, I went to the market between 5 and 6 o'clock a. m., and there was a great number of people selling flowers in all conceivable ways, in bouquets, wreaths, crosses and designs, and also in loose bunches. Their prices are very low. For 25 cents of Mexican money, which is worth only about half what our United States 25 cent pieces are, we can buy more flowers than we could obtain here in our markets for \$1. Varieties are roses, violets, sweet peas, heliotrope, forget-me-nots, daisies and orange blossoms, with wild ferns.

"In regard to the shade trees around their streets and parks, they are very peculiar. Their *Ficus nitida* and *elastica* grow to large proportions; the eucalyptus grows to immense size; the orange is cultivated quite extensively in the parks.

"Chapultepec is called the 'Hill of the Grasshopper,' site of Montezuma's favorite park; palace built by the Viceroy Galvez, once occupied by Maximilian; it has been renovated as the Mexican White



MOUNTAIN LAUREL. PINK CREPE PAPER AND NARROW WHITE RIBBON.



BOTTLEBRUSH (METROSIDEROS). RED CREPE PAPER AND NARROW RED RIBBON, MATCHING COLOR OF THE BLOOMS.

House. On the hill stands the Military Academy, in the rear of the Presidential Mansion. Leading down from the garden on the roof is a subterranean sally-port, said to open into the cave at the foot of the hill. The park has great cypresses, covered with Spanish moss; one of these giants is 170 feet high and 46 feet around the trunk. Montezuma's bath is in the park, and is now used by the water department of the city. A rock on the hillside is covered with ancient hieroglyphics.

"We passed through mile after mile of plains and coffee plantations. Many orchids could be seen hanging from the trees. I spent one day in Tampico, where Americus Vespucius landed in 1497. This city is very very old in appearance. It is a market for fruit of many varieties."

Boston.

As Easter approaches it becomes more and more apparent that there will be no overstock of flowers for that occasion. If the Easter trade were as a few years ago, a cut flower trade almost exclusively, present indications would indicate a famine, but the sale of Easter plants has increased so rapidly for the past two or three years that a prediction as to the extent of the cut flower demand would be only guess work. Of lilies there will be a considerably less quantity on this market than there were one year ago, so that last Easter's slump on that specialty is

not likely to be repeated. Good carnations are already far short of the daily demand, and have been for some time, so that New York and Philadelphia stock is finding a ready sale here; there is no guess work about this. Of the best roses there are not more than enough, although the street fakirs find no trouble in stocking up on inferior quality stock. From present indications it would seem that violets and bulbous stock will be in full supply.

On Saturday, 21st inst., the garden committee of the Massachusetts Horticultural Society and other invited guests visited the greenhouses of the Bussey Institute to view the exhibit of spring flowering bulbs, forced shrubs, etc. The houses, which are in charge of Chas. J. Dawson, were found to be in splendid condition, and exceedingly creditable to that gentleman, it being undoubtedly true that such a gorgeous and varied display could not be seen elsewhere in this country. Especially noticeable were the pans of *Cypripedium spectabile* and *C. acaule*, on some of which were counted thirty to forty flowers. Besides the lilacs, laurels, azaleas, etc., there were beaths, andromedas and spiraeas in several species, *Daphne Cneorum*, *exochorda*, *Staphylea colchica*, *Lilium umbellatum*, Scotch broom and numerous other shrubs and hardy herbaceous plants seldom seen indoors, and the collection of anemones was particularly fine. After a stroll

through the houses the visitors were escorted to the residence of Mr. Jackson Dawson, where they were entertained for a couple of hours and partook of what Mr. Dawson called an old fashioned New England dinner with fixin's.

Excepting the frosty temperature of the opening day the Massachusetts Horticultural Society was favored with beautiful weather for its spring show, of which a full account is given in another column, and attendance was very large.

A paper illustrated by stereopticon views was read at Horticultural Hall on Saturday, March 21, by F. Lamson Scribner of the Division of Agrostology, Agricultural Department, Washington, D. C., the subject being "Grasses."

Supt. Doogue announces that he proposes to introduce aquatic plants the coming season in the ponds and basins of the Public Garden and other small parks under his control throughout the city.

At the April meeting of the Gardeners' and Florists' Club Prof. B. M. Watson, Jr., of the Bussey Institution, will read a paper on the arrangement and grouping of hardy plants. This insures a good meeting, as Prof. Watson is exceedingly popular, and deservedly so among the fraternity.

The dinner to the committees and exhibitors in the spring show which took place at the Thorndike Hotel on Tuesday noon was one of the most successful on

record. About seventy gentlemen were present. J. H. Woodford, chairman of the committee of arrangements, presided. Joe is the right man in the right place.

New York.

Business has not improved materially since last report, although conditions are changing surely for the better, and the outlook for the immediate future is much brighter and prospects for Easter trade are considered by the wholesale dealers to be very good. Roses are not coming in heavy supply, but prices have shown no indication of advance as yet. The best American Beauties go at 40 cents, but there are very few in the market that are worthy to go in this class, and if there were the price would not hold, as the demand for them is light, Brunners, Rothschilds and Magnas being in a position to dispute the ground with them just now. Jacqsof ordinary quality are plentiful and are not bringing over 8 cents, many being sold for one half this figure. Carnations are not so abundant as they were and sell quicker, although prices are low excepting on the higher grades. Good Scotts are none too plenty, but of Daybreaks of good quality and of excellent whites there is an abundance. In fact all white stock has shown a disposition to drag. Harrisii lilies are moving a little faster at slightly improved figures. Violets are sufficiently plentiful to keep the price down to low limits, although the cool weather aids to keep the quality good for the time of year, and it would seem as though we would have them in good shape for Easter. Lily of the valley, in fact all bulbous stock generally, is still in the dumps, daffodils however are selling somewhat better. There is too much common grade mignonette coming in. Smilax is very scarce. Shipping trade for Easter has already begun to loom up and unless all signs fail it will be of considerable magnitude this time.

The Flatbush Bowling Club has again defeated the Arion Club in a series of three games.

Visiting New York: John McDowell, of Newport. J. N. May and P. O'Mara have gone to the Boston exhibition, Mr. May carrying a nice box of Morgan roses.

Philadelphia.

The growers, particularly those who make a specialty of Easter stock, are rushed these days, and have seemingly more than they can do. Orders came in slowly at first, but now many lines are sold out and the signs "sold, hands off," are seen on many groups of plants with the exception of large sizes. Robert Craig says he is entirely sold out of azaleas, and his other stocks are moving so lively as to indicate a very good season. Jacob Becker says that his old customers are all duplicating and adding to their orders of last year, and he is perfectly satisfied with the way things look. Mr. Harris is especially pleased with the outlook, and thinks it will be the largest Easter he ever had. He has the largest and most varied stock of Easter plants of any establishment in the country. Other growers say their order books are rapidly filling up and all predict a great Easter. The large department stores are handling a good many plants, using them on their counters and cases, and selling what they can, their prices are however, much the same as charged by the regular dealers.

There are indications that the growers have commenced to hold back their cut flowers, particularly carnations. These



LILY. 5 BULBS. 30 FLOWERS. WHITE CREPE PAPER AND SATIN RIBBON. WITH A FEW STRANDS OF BABY RIBBON OF LIGHTER SHADE

flowers are selling quite well now, and it seems a foolish move to refuse a good market at this time for perhaps an inferior one later on.

The medal of the gun club has hardly had time to get warm on one member's breast before another fellow is after it. Mr. Harris won it at the shoot last Wednesday, and will no doubt have to defend it in about two weeks.

Visitors in town: M. Breitmeyer of Detroit, Gude Bros., Washington, R. Patterson, Baltimore, Alfred Outram, London.

St. Louis.

Stock of all kinds was decidedly scarce the past week, not enough to go around, but this week opened up Monday with bright sunshine, and if it continues good stock will not be scarce for Easter. Trade last week was very good; a good many

funerals of late have been a great help to all the florists, using up all the white stuff they could get. The commission men have had some large shipping orders of late. In roses, such as Brides, Meteor, Bridesmaids, Woottons and Perles, prices range from \$4 to \$8; some extra fine blooms brought more. Carnations are not so plentiful as a week ago, and bring from \$2 to \$2.50; some extra fine Scotts and Daybreak bring \$3. Violets are still scarce; home grown sell at 25 cents, double at \$1. Bulb stock is a little better this week; the valley that comes in is very good and sells at \$3 and \$4. Daffs remain at \$2, Romans \$2, Dutch at \$3 and \$4. Harrisii have gone up to \$8, and callas bring from \$8 to \$10. Freesia is selling at from \$1 to \$2. Smilax sells well at \$15 to \$18.

A visit to some of the south side florists found them in first-class shape for Easter



PINK RHODODENDRON, PINK CREPE PAPER AND NARROW WHITE RIBBON.



DOUBLE-FLOWERING ALMOND, BOW OF DARK OLIVE SATIN RIBBON, FESTOONS OF PALE GREEN CREPE RIBBON.

and the spring plant trade. Frank Fillmore will have about 500 Harrisii lilies, 200 spiræas, and will be in full crop with roses and carnations. His house of Uncle John is about as fine as one wants to look at, and same can be said of his rose houses. Frank tells me that he has quit the market and will sell all his spring stock at home this year.

At A. Schray's place his 16 large houses are full of fine grown spring plants for the market; Mr. Schray will have about 500 Harrisii to sell for Easter, also a fine lot of spiræas. His rose and carnation houses are in good shape, and with good bright weather will find him well supplied for Easter. A fine lot of swainsonas were also seen. Mr. Schray anticipates a good spring trade in plants.

The Beyer Bros. are also in fine shape for the Easter trade, have about 500 Harrisii, as fine a lot of spiræas as can be seen anywhere, 1,200 Dutch hyacinths in pots. Spring stock at this place is very fine, and Mr. Beyer expects a large spring trade in plants.

The Jordan Floral Co. will have a large cut of Jacques for Easter.

The Bowling Club Monday night ended its March series of 12 games. J. J. Beneke made 2,396 in 12 games and wins the medal. F. C. Weber was second with 2,245, and D. Helwig third, 2,108. Mr. Helwig made the highest single score during the series, 247; J. J. Beneke second, 242, and Weber third with 234. Next

week the club will roll a match game with the magnolias of South St. Louis, four games each night. The first games will be rolled on the Magnolias' alleys. Their alleys are on the northeast corner 11th and Victor streets, and all florists are invited to come and have a good time.

J. J. B.

Toronto.

The weather still continues very cold but mostly bright; such a long continuance of cold in March is very unusual; there has also been a good deal of snow, sufficient to block nearly every railway in Canada for nearly three days. Such a blockade has not occurred for many years. Trade still continues moderately good in spite of the weather and the quality of flowers coming in could not be better. There is every probability of a very large Easter trade being done both in cut flowers and plants, and that the supply though large will not be in excess, perhaps not even equal to the demand.

The meetings of the Gardeners' and Florists' Association show a considerable improvement this year, the one held last Tuesday being an exceptionally interesting one. Ferns were especially in evidence and two or three tables in the middle of the room were strewn thickly with fronds of many different varieties and also many plants, all of which were well looked over and discussed. Mr. E. H. Carter read a long but very interesting paper describing

the building and planting of a fernery and giving descriptions of the various ferns and the soil and position most suitable for them. Many of the varieties mentioned were unknown or of rare occurrence on this continent, and although Mr. Carter's essay showed his deep and thorough knowledge of the subject I hope he will excuse me when I say that it was a little too far ahead of the present capabilities of this country to be of much use to the members. Such a fernery built and planted as described would indeed be "a thing of beauty and a joy forever" and every member would rejoice to see it, but is it at all probable that any of us will see anything like it for the next twenty-five years? I should be sorry to discourage any member from trying to raise the standard but to consider our status at the present time, our surroundings, facilities and capabilities.

The Steel Briggs Seed Co. sent down a plant in bloom of the *Richardia Elliottiana* (yellow calla). The flower was much praised and admired and was unanimously awarded a first-class certificate of merit. Mr. E. H. Carter brought down a plant of a *really* dwarf form of *Asparagus plumosus* which he has had in his possession for three or four years and which has never shown a sign of wanting to ascend. The plant was in a 6-inch pot, very bushy and about ten inches high. Some of those present said it was just the thing florists had been looking out for

and hitherto had been unable to get. It was also awarded a certificate of merit. The chrysanthemum show prize list was adopted with very little alteration from that of last year. One or two radical changes were proposed by Mr. Ewing, but they did not appear to be acceptable to those present and were accordingly sat on with considerable emphasis. E.

Chicago.

The market keeps quite firm; in spite of bright weather few growers are cutting as much as usual. The quality of stock is generally very good. Bridesmaid and Bride is coming in in extra quality from Bassett & Washburn and Reinberg Bros., and the former firm is cutting plenty of good Morgans. Stielow is sending in particularly fine Brunners, the first hybrids here. Roses, when of first quality, hold stiffly to outside figures, and \$8 is quoted for extra selected stock. Carnations are more plentiful, but white is still rather scarce. Bulb stock moves very slowly, but Harrisii is naturally going up. All greens are scarce, and there is a great shortage of smilax, which is held at \$15 to \$20. Violets hold at 75 cents for the best, though poor stuff goes down to 40 cents.

It is the general opinion that Easter will see a shortage in a good many lines, but especially lilies, although there is no tendency to rush them up to an extravagant price. In a good many cases the lilies intended for Easter came in ahead of time, thus reducing the stock, and there appears no reason to expect a sudden drop at the last, such as has happened some years. In other flowers the cut has been small for some time, whatever the cause; people are cutting fewer flowers than usual. In this market we do not have a huge quantity of flowering plants grown for Easter, which in the eastern cities largely takes the place of cut flowers, so the prospects are that there is no chance of a surplus to be gotten rid of at reduced prices. Shipping orders continue very brisk, so it is evident that growers in other places are also suffering a shortage. That terrible surplus we all dread in the hands of the fakir goes elsewhere, which is certainly better all around locally.

The violet meeting of the Florist Club, held last Thursday evening, was a very interesting session. The exhibits were as follows: James Hartshorne, Chicago, a well grown plant each of California, Marie Louise and Swanley White and vases of fine flowers of the same varieties; J. G. Robinson, Waukesha, Wis., a bunch of excellent Marie Louise; John G. Heintz, Terre Haute, Ind., a large bunch of flowers of the new single violet Princess of Wales; C. E. Weld, Roslindale, Mass., three blooming plants of the new Farquhar violet; C. Ehrhardt, Park Ridge, Ill., three bunches of very fine Marie Louise; Jos. Carbone, San Francisco, flowers of the California, introduced by him. J. C. Vaughan, Chicago, displayed flowers of cannas Italia, Etandard and his unnamed yellow seedling; also flowers of the new Yellow Souper (Mosella) and Pink Souper roses. From H. L. Sunderbruch, Cincinnati, came flowers of the new pink carnation Miss Emma Woher. Mr. John Reardon, Chicago, made a pretty display of orchids in variety including flowers of *Coclogyne cristata alba* and some rare epidendrums. A report of the essays and discussion will appear next week.

Mr. Jas. Jensen of Humboldt Park has a fine display of cyclamens at the present time; these will make an attractive show

in the park greenhouses at Easter. A plant brought to this office showed an excellent strain, grown with much cultural skill.

Recent visitors: Mr. Jac. Wezelenburg, Sassenheim, Holland; Mr. E. H. Giesy, of the Lockland Lumber Co., Lockland, O.; H. Van Zanten of M. Veldhuysen Van Zanten & Sons, Sassenheim, Holland.

McKeesport, Pa.

Messrs. A. J. Deitz & Co. have recently added a seed department to their flower store on 5th avenue.

The usual complaints, frequently heard from retail florists located in towns adjacent to large cities, that "folks will go to the city to buy their cut flowers, designs, etc.," are not made by A. J. Deitz & Co. who not only hold their local trade but do also a good business in the suburban towns. Mr. Deitz reports a good trade all along the line. HOMO.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—In florist store by young lady experienced in handling and making up flowers. Address H. box 891, Bangor, Maine.

SITUATION WANTED—As foreman, first-class grower of cut flowers and bedding plants; good designer, 15 years' experience. A M, care American Florist.

SITUATION WANTED—As foreman and grower of roses, carnations, violets, palms, all kinds of florists' stock; States preferred; references. GEO. NORTON, box 377, Brockville, Ont., Canada.

SITUATION WANTED—By long experienced florist and gardener, married, no children, steady and temperate, in good private place; good references from prominent employers. Address E M, care American Florist.

SITUATION WANTED—By a first-class rose grower to take charge of place; also undertake growing carnations and bedding plants; good references; state wages. OSCAR DE FLAUN, P. O. Box 508, Nyack, N. Y.

SITUATION WANTED—By thorough practical florist and gardener, commercial or private place; A No. 1 rose grower, carnations, violets a specialty; good designer; age 36, married, best references. Address W, 408 Lagonda Ave., Springfield, Ohio.

SITUATION WANTED—As assistant on large private or commercial place; 4 years' experience at roses, chrysanthemums and general greenhouse work; employed at Waban Conservatories; good reference. Address W E, Waban Cons v'ts, Natick, Mass.

SITUATION WANTED—As foreman or assistant on commercial or private place experienced grower of cut flowers, decorative or bedding plants; age 30, sober, good references. Address G M, Eastern Office, American Florist, 67 Bromfield St., Boston.

SITUATION WANTED—An experienced practical gardener and florist would like to take charge of a commercial or private place; must be in or near Chicago; can furnish best of references. Address E. HAY, care Mr. Nicolaus, 738 19th St., West Pullman, Chicago.

SITUATION WANTED—As working foreman in commercial or private place, California preferred, single, 41 years of age, lifetime experience, roses, carnations, azaleas, camellias, palms, etc., a specialty; the past seven years foreman in one of the largest commercial places of New Jersey; speaks fluently English, German, French and Dutch; very best of references from last employer. KENTIA, care American Florist.

WANTED—An experienced florist for growing flowers and plants. Address with reference M. E. EATON, Lyons, Ia.

WANTED—To lease for a term of years greenhouses with some land attached; must be in or near Chicago. Address CLOUSTON, care Am. Florist.

WANTED—A good rose grower to take charge of section of greenhouses under foreman; single man preferred. Address REINBERG BROS., 51 Wabash Ave., Chicago.

WANTED—To lease an established florist business in a live city, doing a good trade, consisting of 3,000 to 4,000 feet of glass. Address A B, care H. Waddington, Brantford, Ont.

WANTED—Information of the present whereabouts of Charles Brady; when last heard from he was working in Orange, N. J., in a private place. Send information to PATRICK O'MARA, 35 & 37 Cortlandt St., New York.

WANTED—Two A No. 1 florists as working foremen or managers; will pay from \$40 to \$50 per month and free rent; none but reliable men with first-class references. Address L J, care Rogers Park Floral Co., 41 Wabash Ave., Chicago, Ill.

WANTED—At once, an active industrious single man as florist to take charge of retail establishment of 7,000 feet; must be acquainted with growing cut flowers and propagating for plant trade; must be temperate and of good manners and a good salesman; wages \$20 per month and board. Address F. E. BLAKE, Marion, O.

FOR SALE—A florist's establishment. Address E. KIRKPATRICK, box 175, Shug Sing, N. Y.

FOR SALE—Greenhouse property, established business, well located; transportation in every direction. Address CARNATION, care Am. Florist.

TO LEASE—For a term of years to a reliable florist or nurseryman, 18 lots (180x300 feet) in 2nd ward, Brooklyn, New York. Address OWNER, 1054 Park Place, Brooklyn, N. Y.

FOR SALE—Five greenhouses, each 30 feet long; shed 12x50 with two living rooms, hot water; town 30,000 people, situated 1½ miles from San Francisco; 30 trains daily; finest climate known. Address A B, care American Florist.

FOR RENT—Eleven greenhouses all heated by low pressure steam; this is a good chance for a man to go in business with a small capital; write, information free; location good. Address HENRY MOORE, McLemore Ave., Memphis, Tenn.

FOR SALE—Greenhouse property in a large city west of Chicago; 8,000 feet of glass, 8-room house, two horses, two wagons, \$3,000 worth of stock; ground rent \$25 per month; price \$5,000, one-half cash. Address BUSINESS, care Vaughan's Seed Store, Chicago.

FOR SALE—A florist business—5 houses, 5,000 square feet of glass, fine stock ready for spring trade, hot water heating, 2 sheds dwelling, etc.; all in good condition, rare chance for the right man; to be sold on account of ill-health. For particulars: E. TIEDEMANN, O'Fallon, Ill.

FOR SALE.

BROAD STREET FLORAL EMPORIUM, Broad and South Sts., Philadelphia, including stock of Plants, Greenhouses, Fixtures and Lease. Property 60 feet front on Broad St., 60 feet deep, large show house in front, three small houses in rear. Present owner is retiring from business. Apply

A. W. BOERNER, above address.

FOR SALE.

Eleven acres land containing a desirable building lot, two greenhouses (one new), one dwelling house, barn and established florist business of twenty-five years, with full stock bedding plants for this spring's trade; telephone and city water; in Anthony, R. 1, 13 miles from Providence on Prov. Div. New England R. R.; Main street with electric railway. For particulars see or address

HENRY JOHNSON, Wauregan, Conn.

FOR SALE.

I offer for 30 days one of the best investments in greenhouse property on Long Island, in 29th Ward, Brooklyn City. This is a place that in a very short time will DOUBLE in value. 12 Greenhouses, one new 200-FOOT IRON FRAME SOUTH-HOUSE, HOUSE, BARN, etc. All good as new, in perfect order. Just the place for Carnations, or A1 stand for general stock. Best of reasons for selling.

HESSION'S,

Clarkson St. above Co. Bldg., BROOKLYN, N. Y.

Solanum Azureum.

Fine plants, 5 to 7 inches high, from 2-inch pots, sent postpaid for \$4.50 per 100.

Agave Sisalana.

Very ornamental and quick growing "Century Plant," fine plants, 4 to 6-inch, postpaid for \$4.00 per 100.

Send for large Illustrated Catalogue. REASONER BROS., ONECO, FLA.

FOR SALE.

1000 field grown DAHLIAS, 4 to 6 tubers to each clump. 500 named of the latest varieties, \$8.00 per 100; and 500 unnamed, at \$6.00 per 100.

Address FRED POORE, 651 Bouck Avenue, BUFFALO, N. Y.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns

Pittsburg.

The general dullness of trade is the universal complaint with the florists this week, and with it all prices remain as usual. Stock is so plenty that no one anticipates any scarcity at Easter, although it is generally expected that a very large amount of flowers, much more so than formerly, will be sold then, as the selling figures will be lower than have usually prevailed at this season. The severe weather of the past two weeks seems to have been thoroughly broken this week, although on Tuesday morning the thermometer registered from 2° to 6° above zero, while on Monday at 3 p. m. it stood at 42°, and now that the snow has gone and sleighing ended a better attendance is expected at the meeting of the club on Thursday night than was had at the previous meeting two weeks ago.

Lord & Burnham of New York, who have the contract for the erection of the addition donated to the conservatories at Schenley Park by Mr. Henry Phipps, commenced work on the foundation this week and expect to have them fully completed by July 1.

Segers Bros., and Mr. Speelman, the bulb growers from Holland were with us a few days. Mr. Skidelsky of M. Rice & Co. also was in evidence.

Mr. Wm. Falconer made a flying trip of one day arranging for a house, which he secured on Filmore street next to the one occupied by the late Mr. Bennett. He expects to return and enter on the duties of his new position as Supt. of Schenley Park on April 1.

Mr. John Bader's wife has been very seriously ill, but is reported slightly improved; their numerous friends all hope for a speedy recovery.

REGIA.

Roses H. P. and Moss, 2 year, suitable for 4 and 5-in. pots dormant, per 100 \$6.
ROSES, H. P., 2½-in. pots, dormant, 100 \$4.
DOUBLE PETUNIAS, Dreer's strain, 8 finest varieties, per 100 \$2.50.
GERANIUM Mrs. Pollock, per 100 \$4.
MOONVINE (I. Noctiphiton) strong, per 100 \$3.
LEMON VERBENA, 10 to 15-in., dormant, per 100 \$3.
OTAHEITE ORANGE, 6 to 10 in., stocky, per 100 \$3.
AMPELOPSIS VEITCHII, per 100 \$3.
ASPARAGUS TENUISSIMUS, 2-inch, strong, 100 \$3.
WISTARIA SINENSIS, 2-yr., per 100 \$6.
" 1-yr., per 100 \$3.
SANSEVEIRA ZEYLANICA, strong, per 100 \$4.
THOS. A. McBETH, Springfield, O.

Rooted Cuttings.

COLEUS—Red and yellows, also twenty finest fancy leaved, at 75c per 100; \$6.00 per 1000.
PLANTS—Alternanthera, red and yellow, 80c per 100; \$6.00 per 1000. Heliotrope, blue and white; Semple's Aster, mixed; Ageratum, blue, and Verbena in choice bright colors; all at 75 cents per 100.
HERR'S COLD FRAME PANSIES, the strain that has made them famous. Per 100, \$1.75 and \$2; per 1000, \$12.50 and \$15.

ALBERT M. HERR,
LANCASTER, PA.

ROOTED CUTTINGS **ALTERNANTHERAS.**

P. MAJOR and A. NANA.

75 cts per 100; \$5.00 per 1000. Fine stock, ready April 1st.

C. K. HOFFMEYER, Carnegie, Pa.

WE beg to announce that the firm of

• • • • T. J. CORBREY & CO.

is dissolved—Mr. Corbrey retiring from the business, which will be continued under the firm name of

WINTER & GLOVER.

As our management will remain the same as before, we can assure our patrons that prompt, fair and square dealing is still our motto. We offer the

CHOICEST SELECTION OF CUT FLOWERS

in the market and shall be pleased to quote prices as low as is consistent with quality.

The prospect for EASTER STOCK is promising; by favoring us with an early order we can guarantee extra choice.

Harrisii,

Callas,

Hybrids,

Roses in variety,

Carnations, including Novelties,

Violets,

Bulbous Stock of every

description.

Send for price list of Cut Flowers and illustrated catalogue of wire designs.

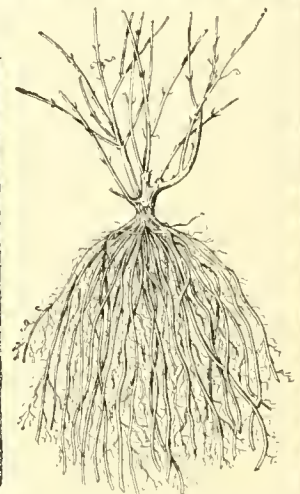
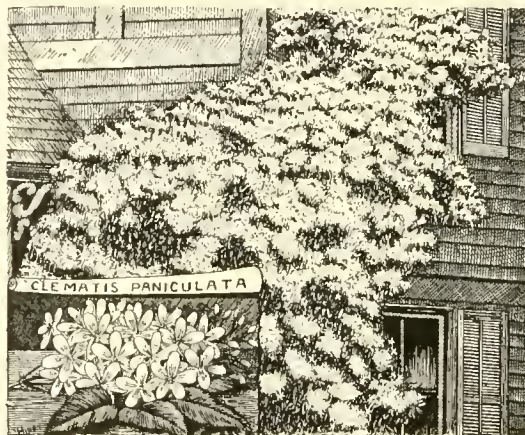
WINTER & GLOVER,

Wholesale and Commission Florists,

59 WABASH AVENUE,

CHICAGO.

CLEMATIS PANICULATA.



Unquestionably the most valuable hardy flowering vine that has been introduced within the past fifty years.

Strong field grown plants of the style illustrated, doz., \$2.00; 100, \$10.00.

THE LOVETT CO., Little Silver, New Jersey.



BLOOMERS FOR FLORISTS.

— THINK OF IT —

CUSHMAN'S GLADIOLUS BULBS,

a sure fit at popular prices.

CUSHMAN GLADIOLUS CO., Euclid, O.

PLANTS for EASTER

IN BUD AND BLOOM. Per 100
 BEGONIAS, 3 and 4-inch pots, ... \$3.00 to \$10.00
 CALLA LILIES, 4 and 5-inch pots 10.00 to 15.00
 CINERARIAS, 4 to 5 inch pots 8.00 to 10.00
 DUTCH HYACINTHS, 3-inch pots 10.00
 GERANIUMS, 3 and 4-inch pots 3.00 to 4.00
 HELIOTROPE, 2 and 3-inch pots 3.00 to 4.00
 PRIMULA OBSCURA, 3 and 4 inch pots 8.00 to 10.00
 AGERATUM, White and Blue 2-in. pots 3.00

WILLIAMS & SONS CO., Balavia, Ill.

Mention American Florist

The Oaks Greenhouse Co., Jackson, Mich.

Offer the following: 300 1000
 Primula Jap. nice 2½-inch pot plants \$2.50 \$
 Rooted Cuttings Carnations, 3 varieties 1.00
 Begonia Metallica, 3½ 5.00
 Rooted cuttings Chrysanthemums, standard varieties 1.00 9.00
 R. C. Marguerite Daisy, white and yellow 1.00 9.00
 R. C. Vinca variegata 1.00 9.00
 R. C. Carnations, Daybreak, McGowan, Portia, etc. 1.25 10.00
 R. C. a quantity of La France Roses 1.50 12.00
 11 to be sent by mail add 10c per 100. Cash with order.

FLOWERS FOR EASTER

Present indications are that flowers will be very scarce for Easter, and we advise our customers to

PLACE ORDERS EARLY

if they wish to be certain of having them filled, as advance orders will be given the preference.

PRICES LOWER THAN LAST YEAR.

The prices quoted are less than those of last year, and if stock should be more plentiful than anticipated *our customers will receive the benefit of any change*, and we will follow inside figures as close as market will allow. We give below, *subject to change without notice*, our

EASTER QUOTATIONS.

P. & D. COST.	Per 100	P. & D. COST.	Per 100
Brides, Meteors and Bridesmaids.....	\$5 00 to \$8 00	Violets	75 to \$1 00
Perles and Gontiers.....	4 00 to 5 00	Tulips and Daffodils.....	\$3 00 to 4 00
Roses(our selection).....	4 00	Single Narcissus (yellow).....	1 50 to 2 00
Carnations (long).....	1 50 to 2 00	Dutch Hyacinths.....	5 00 to 8 00
Carnations (long fancy).....	2 00 to 2 50	Mignonette	1 00 to 2 00
Carnations (our selection).....	1 50	Marguerites	50 to 60
Harrisii Lilies	11 00 to 13 00	Smilax	18 00 to 22 00
Calla	10 00 to 12 50	Adiantum.....	1 00
Lilies of the Valley.....	3 00 to 4 00	Common Ferns.....	(\$3 00 per M) 35
		Galax.....	(2 00 per M) 25

All flowers in season at lowest market price. Our store is open till 6:30 P. M. and on Sundays and Holidays till noon.

Full Line of Florists' Supplies and Wire Work a Specialty.

KENNICOTT BROS. CO.

88 Wabash Avenue, CHICAGO.

ADAISY THAT SELLS

25 rooted cuttings of my new yellow Marguerite for \$2, by mail.
Nice 2-inch pot plants, ready for shift, 10 for \$1. It is a pleasing shade of yellow, very floriferous, with a double row petals, and stems 8 to 10 inches long.
Brides and Bridesmaids, 2 1/4-inch pots, \$4 per 100.
Fishers in 2-inch, \$2 per 100.
ALL A1 STOCK.
Sample flowers mailed on receipt of 10c.
CASH WITH ORDER.
F. BURKI, Bellevue, Pa.



WATSON'S ENGLISH MUSHROOM SPAWN
THE  BRAND

Unsurpassed in quality, always fresh, well spawned and reliable, can be thoroughly relied on to produce a fine crop of the best mushrooms. Its stocks are the largest and finest in the country, and it sells at rock bottom rates for first quality spawn. Guaranteed the best in the market. Thousands of customers to prove it. A trial order solicited. Send for new prices, per pound, for mail order, with 10c. Express or freight, to the buyer, 10c. to \$1.00. The mushrooms will grow on any kind of wood, and will keep in perfect condition for 100 days. Write for larger quantities. The G. C. Watson Co. Wholesale Seedsmen, 43 North 10th Street, Phila., Pa.

Collections,
Reports,
Black List,
National Florists' Board of Trade,
271 Broadway, N. Y. C. S. LODER Sec'y.

Fine Anthemis coronaria superba fl. pl.
\$2 50 per 100.
3 1/2 inch pot ROSES, our selection,
\$5.00 per 100.
Write for prices on anything you want.
NATIONAL PLANT CO.,
DAYTON, OHIO.

Siebrecht & Wadley's ROSE HILL NURSERIES, NEW ROCHELLE, N. Y.

The largest and finest Collection of Palms in AMERICA. The beauty of stock is home-grown, making dwarf in fine shape and stand more usage than imported stock. A VISIT to our NURSERIES or a trial order and you will be convinced.

SPECIALTIES: NEW CARNATIONS AND CHRYSANTHEMUMS OF 1895.

Palms for Growing. PALMS FOR SELLING. Palms for Decorating.
Areca lutescens, Cocos Weddelliana, Kentia Belmoreana, Kentia Forsteriana, Latania borbonica, Phoenix, 7 varieties, Pritchardia grandis. DRACENAS, Commercial varieties.

The Grandest stock Ferns for jardinières in 5 varieties. No equal to our stock. We have without exception, the finest stock of Palms, Slove and Foliage Plants, Orchids and Ferns in fancy named varieties for private use.

Before ordering LILY VALLEY, LILIU HARRISII for next season, write us for sizes and prices. To your advantage. WHOLESALE PRICE LIST READY APRIL 1st.

SIEBRECHT & WADLEY, N. Y. OFFICE,
409 FIFTH AVE.

A CANNA ALREADY FAMOUS, The Newport Sensation "MRS. FAIRMAN ROGERS."

Has received Silver Medals at Boston and Newport. First-Class Certificate at New York, Montreal and Newport.

A dwarf grower and prolific bloomer, bearing three flower heads on a single spike at one time. Flowers full and round, scarlet bordered yellow.

PLANTS \$6 PER DOZEN. STOCK LIMITED.

J. S. COWLES, Newport, R. I.

GERANIUMS, 3-inch, extra strong, only best bedders; the 100, \$1.00.
HELIOTROPE, purple, 2 1/4-inch; the 100, \$2.00
Cash with the order.
G. A. THIELE, Annapolis Junc., Md

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.
Subscriptions accepted only from those
in the trade.

Advertisements, 10 Cents a Line, Agate;
Luch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
wares pertaining to those lines ONLY. Please to
remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to see-
ure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

In Mr. Pennock's adv. on page 899 of
our last issue the name should read
Samuel S. Pennock instead of Samuel J.

HORTICULTURE is the name of a new
publication devoted to outdoor garden-
ing, of which we have received the first
number. It is published monthly by O.
A. Knox at Cuyahoga Falls, Ohio, M.
Crawford being the editor.

THE ANNUAL REPORT of the Buffalo, N.
Y., Park Commissioners was recently re-
ceived at this office. Much planting has
been done during the past year, and, in
addition to the landscape work, the
botanical planting is progressing in a
very satisfactory manner.

In the advertisement of palms and
coleus on page 900 of our spring number
the firm name should have been B. P.
Critchell's Sons instead B. P. Critchell &
Son, and in the same advertisement
following *Latania borbonica* it should
have read "Fine plants" instead of
"Price plants."

Cincinnati.

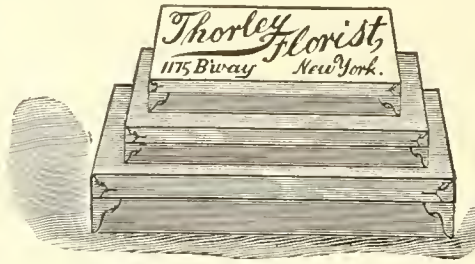
Our storemen complain of dull trade
the past week; both wholesale houses
are doing a fair shipping trade.
Prices are low and only the choice sells at
these figures. Carnations 1 to 2, roses,
small, 3 to 5, choice Mermet, Brides,
Bridesmaid and Meteor 5 to 8; valley 3,
narcissus 3, Romans 2, tulips 2 to 3, callas
6 to 8, Harrisii 6 to 10; violets 50 cents
per 100.

Market last Saturday, being a nice
bright day, brought out most all of the
florists. Cut flowers moved moderately
at fair prices; there was a brisk demand
for ferns and small palms. A lot of choice
hybrid roses on G. Adrian's stand sold
well. We are all looking forward to
Easter and from the general appearance
of stock the supply will be equal to the
demand. H. SCHWARZ.

H. KRIENBERG,
WHOLESALE FLORIST
104 So. 13th St., PHILADELPHIA.

Telephone 2546. Consignments Solicited.
When writing mention American Florist.

MILLANG & WINES,
WHOLESALE FLORISTS,
501 Sixth Avenue,
CORNER 30TH ST., NEW YORK.
Consignments Solicited.



The boxes as they appear when set up for use.

We make them in a sufficient number of sizes, including for violets, to meet all necessary requirements.

THE NATIONAL FOLDING BOX & PAPER CO.,

NEW YORK SALESROOM:
132 & 134 Franklin Street.

315--325 Congress Ave., NEW HAVEN, CONN.



W. ELLISON,
WHOLESALE
Cut Flowers & Florists' Supplies
WIRE DESIGNS.
1402 PINE STREET.
—St. Louis, Mo.

C. A. KUEHN,
(Successor to ELLISON & KUEHN.)
Wholesale Florist,
1122 PINE STREET,
—ST. LOUIS, MO.
A complete line of Wire Designs.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

The Boston Flower Market
is prepared to purchase, on order, and
ship Trade orders for Cut Flowers at
prices ruling in the market on day of
sale. TERMS STRICTLY CASH.
Address WM. J. KENNEDY, Mgr.,
Flower Market, Park St., BOSTON, MASS.
Long Distance Telephone "Haymarket 638."

DAN'L B. LONG,
FLOWERS AT WHOLESALE.
Strictly Commission Business.
SUPPLIES, ETC.
LISTS FREE. **BUFFALO, N. Y.**

A. & F. RÖLKER,
Down-town Wholesale Florists,
106 & 108 Liberty Street (Basement),
—NEW YORK.

PLEASE mention the AMERICAN FLORIST
every time you write to an advertiser.

"The National"

Folding Flower Boxes are the best
and most convenient ever put upon
the market. They are made from
board, manufactured especially for
these goods, and made so as to resist
moisture, thereby keeping the flow-
ers fresh, and the box holding its
shape.

THE NEW YORK
CUT FLOWER CO.,
119 and 121 W. 23rd St., and
112 and 114 W. 24th Street,
IS NOW
OPEN FOR BUSINESS.
The Largest Dealers in
CUT FLOWERS
IN THE WORLD.

Handling flowers of all kinds in quantity
we are in a position to fill shipping orders
promptly. We shall give careful attention
to this branch of the business, and solicit
your patronage.

WHOLESALE
FLORISTS
W. F. Marshall & Co.
JOEBERS IN
FLORISTS'
SUPPLIES,
FLORISTS'
VASES.
METS,
BRIDES,
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.
84 Hawley Street,
BOSTON, MASS.
HORTICULTURAL AUCTIONEERS.
Always mention American Florist.

WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., **BOSTON, MASS.**

Asparagus Plumosus Nanus.
Cut Strings, 8 to 10 feet long,
50 CENTS.

W. H. ELLIOTT, Brighton, Mass.
SAMUEL S. PENNOCK,
Wholesale Florist
1612 & 1614 BARKER STREET,
Bet. Market & Chestnut, **PHILADELPHIA, PA.**

E. H. HUNT,
WHOLESALE FLORIST
 68 Lake Street, CHICAGO.

WHOLESALE CUT FLOWERS.
 SEEDS, BULBS AND ALL
 FLORISTS' SUPPLIES.

KENNICOTT BROS. CO.
Wholesale Cut Flowers
 and FLORISTS' SUPPLIES,
 88 Wabash Avenue, CHICAGO.

Bassett & Washburn,
 Successors to J. B. DEAMUD & CO.,
CROWERS and
WHOLESALE
DEALERS in CUT FLOWERS,
 88 Wabash Avenue,
CHICAGO.
 HEADQUARTERS FOR AMERICAN BEAUTIES.

Reinberg Bros.
WHOLESALE CUT FLOWERS,
 51 WABASH AVENUE,
 Telephone Main 4937. **CHICAGO.**
 Our Roses best them all, in quality.
 Headquarters for fine American Beauties.

W. E. LYNCH,
WHOLESALE CUT FLOWERS,
Wire Designs a Specialty.
 59 WABASH AVENUE,
CHICAGO.

ROGERS PARK FLORAL CO.,
Wholesale Growers of
CUT FLOWERS,
 41 WABASH AVENUE,
CHICAGO.
 We are prepared to fill your orders with first-class
 flowers. Give us a trial order.

A. G. Prince & Co.
WHOLESALE
COMMISSION FLORISTS,
 41 Wabash Avenue,
 Telephone Main 3208. **CHICAGO.**
 shipments solicited. Prompt attention to all orders.

JOHN P. TONNER,
 41 Wabash Ave., CHICAGO,
GROWER AND
WHOLESALE
DEALER IN CUT FLOWERS

Terms strictly cash. Consignments Solicited.

FLOWERS at RETAIL.

We are prepared to fill orders—received
 by mail or telegram—for Cut Flowers, etc.,
 to be delivered in Cincinnati and suburbs
 or nearby towns.

Customary discount to the trade.

HUNTSMAN & CO.,
 615 Race Street, CINCINNATI, O.

ALWAYS mention the AMERICAN FLO-
 RIST when writing to advertisers.

Wholesale Markets.

Cut Flowers.

NEW YORK, Mar. 26.	
Roses, Beauty, extra grades	10.00@25.00
" " culls	2.00@5.00
" Niphetos Perle	1.00@3.00
" Cusin, Watteville	1.00@3.00
" Bride, Bridesmaid	2.00@5.00
" Testout	2.00@8.00
" Meteor, Morgan	2.00@8.00
" Jacqs	5.00@12.00
Carnations, ordinary	50@75
" fancy	1.50@2.00
Violets	25@50
Valley	1.00@2.00
Daffodils	1.50@2.00
Tulips	1.50@3.00
Freesia	1.00
Longiflorum, Harriell	3.00@5.00
Mignonette	2.00@6.00
Lilac, per bunch	50@75
Adiantum	75 @ 1.00
Asparagus	50.00
Smilax	12.00@15.00

BOSTON, Mar. 26.	
Roses, Gontier, Niphetos	2.00@3.00
" " Perle, Hosto	2.00@4.00
" " Bride, Bridesmaid, Meruet	4.00@8.00
" " Meteor	5.00@10.00
" " Beauty	10.00@35.00
" " Brunner	23.00@50.00
Carnations	1.50@2.00
" fancy	2.00@2.50
Violets	25@50
Valley	2.00@3.00
Harriell, callas	4.00@6.00
Acacia pubescens	16.00
Romans	1.00@2.00
Freesia	2.00@3.00
Daffodils double	1.00@2.00
" single	1.00@2.00
Marquerite	2.00@4.00
Mignonette	2.00@4.00
Adiantum	1.00
Smilax	16.00
Asparagus	50.00

PHILADELPHIA, Mar. 25.	
Roses, Beauties	8.00@40.00
" " Brunners	25.00@40.00
" " Laings	20.00@25.00
" " best selected teas	8.00
" " seconds and small stock	4.00
" " Morgan	10.00@12.00
Carnations, general stock	1.00@1.50
" " selected and choice kinds	2.00
Harriell	6.00@8.00
Valley	2.00@4.00
Romans and Paper White	2.00@3.00
Tulips	3.00
Violets	.50@1.00
Mignonette	2.00@3.00
Freesia	1.00@2.00
Smilax	15.00@20.00
Asparagus	50.00
Maidenhair	1.00

CHICAGO, Mar. 27.	
Roses, Beauties	25.00@40.00
" " seconds	6.00@20.00
" " Perle, Morgan, Siebrecht	3.00@5.00
" " Brides, Bridesmaid	4.00@8.00
" " Meteora	5.00@8.00
" " Testout	6.00@8.00
Carnations	1.25@1.50
" fancy	2.00@2.50
Harriell, callas	6.00
Valley	3.00
Violets	.40@.75
Roman hyacinths	2.00@3.00
Narcissus	2.00@3.00
Hyacinths, Dutch	4.00@6.00
Jonquils	1.00@2.00
Freesia	2.00
Smilax	15.00@20.00
Asparagus	50.00

ST. LOUIS, Mar. 26.	
Roses, Beauties long	30.00@50.00
" " select stock	4.00@8.00
" " general stock	6.00
Carnations fancy	2.10@2.50
" " ordinary	1.50@2.00
Valley	2.00@3.00
Harriell	8.00
Callas	7.00@8.00
Romans	2.00@3.00
Daffodils double	3.00
" single	3.00
Tulips	2.00@3.00
Violets, sing homegrown	.25
" double	.35@.50
Freelias	1.00
Smilax	15.00@18.00

BUFFALO, Mar. 25.	
Roses, Beauties	20.00@40.00
" " Meteors	6.00@8.00
" " Bridesmaid, Mermets, Bride	6.00@8.00
" " Cusin, Perle	5.00@6.00
Carnations, fancy	1.50@2.00
" common	1.25@1.50
" short	.75
Harriell	10.00@12.50
Callas	8.00@10.00
Romans	3.00
Valley	4.00
Violets	.75@1.00
Daffodils	3.00@3.50
Smilax	15.00@20.00

GEORGE A. SUTHERLAND,
 Successor to PECK & SUTHERLAND,
 Successors to WM. J. STEWART,
Cut Flowers and Florists' Supplies
WHOLESALE.
 67 Bromfield St., BOSTON, MASS.
 New England Agent for the GREAT ANTIPEST.

John I. Raynor,
 49 WEST 28th STREET,
NEW YORK.

SPECIAL EXTRA STOCK OF
AM. BEAUTY, METEOR,
BRIDESMAID, BRIDE.

DISBUDDEN CARNATIONS.
FANCY GRADE.

Finest MIGNONETTE in the world.

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Cut Flowers,
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FLORIST.
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Roses Shipped to all points. Price list on application.

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Careful Shipping to all parts of the country.
 Price list on application.

Purdy & Blauvelt,
WHOLESALE DEALERS IN
CUT FLOWERS,
 57 W. 30th St., NEW YORK.

JOHN YOUNG,
FINE ROSES
WHOLESALE,
 51 West 28th St., NEW YORK.

FRANK MILLANG,
CUT FLOWERS,
WHOLESALE, COMMISSION,
 408 E. 34th Street,
 Cut Flower Exchange, NEW YORK.

THEO. ROEHRs,
WHOLESALE
FLORIST
 111 WEST 30TH STREET,
 Established 1879. NEW YORK CITY.

JULIUS LANG,
 (Formerly with THEO. ROEHRs.)
Commission Dealer in Cut Flowers,
WHOLESALE,
 53 West 30th St., NEW YORK CITY.

Re Seed Trade.

AMERICAN SEED TRADE ASSOCIATION.

S. E. BRIGGS, Pres.; T. W. WOOD, 1st. Vice-Pres.; ALEX. ROEDERS, 2nd. Vice-Pres.; A. L. DON, 114 Chambers St., New York, Sec'y and Treas. The fourteenth annual meeting will be held at Niagara Falls, N. Y., June 9 to 11, 1896.

VISITED CHICAGO: C. E. Angell, Oshkosh, Wis.

MR. LEM BOWEN sailed for Europe on the 26th inst.

SEEDSMEN with grips full of letters and "pulls" and trunks packed with "surplus lists" have been seen in Washington and headed for Washington for ten days past, while bag men everywhere are piling up orders and making out "options." The verdict is anxiously awaited, and the hustling that will be done after the orders are placed will be a pretty sight.

Catalogues Received.

J. F. Dickmann, St. Louis, Mo., seeds; C. S. FitzSimmons, Lansing, Mich., retail list plants and seeds; J. Blaauw & Co. Boskoop, Holland, bulbs; E. H. Krelage & Son, Haarlem, Holland, bulbs and roots; Jac. Wezelenburg, Sassenheim, Holland, Dutch bulbs and flower roots; Wisconsin Flower Exchange, Milwaukee, Wis., new cannas; Klehm's Nurseries, Arlington Heights, Ill., plants, flowers, and nursery stock; C. J. Speelman & Sons, Sassenheim, Holland, Dutch bulbs; F. R. Pierson Co., Tarrytown, N. Y., seeds, plants and bulbs.

Washington, D. C.

A brief call on Mr. Pfister at the White House greenhouses showed his famous cinerarias in excellent shape with a good display of bulbous flowers, lilies, hyacinths, etc. Mr. Pfister felt called upon to apologize for the appearance of some plants so frequently hard used in decorations, but the writer could see no need for excuses, as the entire stock seemed in excellent shape. Due preparation has been made for the usual extensive bedding which Mr. P. annually provides for the grounds. B.

Neponset Flower Pots

of Waterproof Paper, are sold as follows:

Terms—Net cash with order. If ordered shipped by freight, add 50 cents cartage.

Size	Packed in Crates of	Gross Weight per 1000 pots	Per 100	Per 1000
2 1/4 inch.....	1,000.....	about 20 lbs.....	\$0 25	\$2 10
2 1/2 ".....	1,000.....	" 23 ".....	30	2 30
3 ".....	1,000.....	" 34 ".....	25	2 80
3 1/4 ".....	1,000.....	" 45 ".....	50	4 00
4 ".....	500.....	" 76 ".....	60	5 00
5 ".....	500.....	" 110 ".....	90	8 30
6 ".....	500.....	" 150 ".....	1 50	13 35

Standard Pot Measure.

Less quantities than full crates at 100 rates.

F. W. BIRD & SONS, Manufacturers.

Address orders to our General Agents,

August Rölker & Sons

New York. P. O. Station E.

or R. & J. FARQUHAR, Boston, Mass., Eastern Agents.
Mention American Florist.

Bulbous Begonias.

LAING'S STRAIN. In separate colors.

Lilium Longiflorum, Tuberoses, *Spiræas*, etc. Now on hand.

Ask for prices.

HULSEBOSCH BROS., Englewood, N. J.

Mention American Florist.

VAN ZANTEN & CO.

HILLEGOM, near Haarlem, HOLLAND,

Headquarters for High-grade Dutch Bulbs.
Finest and Largest Stock of best Forcing Bulbs. Prices very low for First Quality.

Ask for Wholesale Price List to

MR. S. ASCHER, 16 and 18 Exchange Place, NEW YORK.

WHOLESALE ORDERS FOR DUTCH BULBS

BOOKED FOR THE

General Bulb Company,

Vogelenzang (Holland), by

AUG. RHOTERT, Sole Agent, 26 Barclay Street, N. Y.

PLEASE APPLY FOR CATALOGUE AND TERMS.

VAN ZANTEN BROTHERS,

Hillegom, Holland.

Extra quality of HIGH GRADE FORCING BULBS AT LOW PRICES. Special growers of HYACINTHS, TULIPS, NARCISSUS, Crocus, Lilies, Scillas, Gladiolus, IRIS, Anemones, Ranunculus, SPIRÆAS, Lily of the Valley, etc., etc. The largest collection of sundry bulbs and flower roots. Wholesale Catalogue upon application.

London and Paris have given
highest Awards of Merit to

Burpee's "CUPID."

NEW CROP.

Gibson's Progressive Verbena Seed, an advance on all previous productions. Well grown specimen florets of many of the kinds 1 1/4 inches across and easily span a silver half dollar, and of the most intensely brilliant and varied colors. In line mixture per trade pkt 25c; 1/4 oz. 50c; per oz. \$3. White Plume, separate, per trade pkt. 50c; 1/4 oz. 60c; per oz. \$4. Purple, with distinct white eye, per trade pkt. 30c. Trial pkt. 10c. either kind.

Petunia Cal. Giant, finest selection, per 1000 seeds 60c. Single fringed, Dreer's selected stock, per 100 seeds 50c. Scabiosa Snowball (pure white) and mixed colors, per pkt. 5c; trade pkt. 25c. Dwarf French, gold striped Marigold, pkt. 5c; trade pkt. 25c. Verbena, stock plants, 3-in. including latest novelties, labelled, \$4; mixed, \$3; from flats, labelled, \$2.50; mixed, \$2.

No disease. We grow the largest Verbenas known. Variegated Vincas, strong field-grown, 3-in. 3 to 5 shoots, \$7; nice young plants, flats, \$2; rooted, \$1 per 100, \$5 per 1000. Petunia plants, Cal. (Giant), 60 c per 100 (seed paid).

Good satisfaction guaranteed or money refunded. Address, cash with order please.

J. C. GIBSON, Woodbury, N. J.

SEEDS ... FOR THE ... Garden and Farm

Vegetable and Flower Seeds. All the newest and best varieties—quality unsurpassed, Illustrated Catalogue FREE.

WEBER & DON, Seed Merchants and Growers,
114 Chambers St., New York City.

TUBEROSE BULBS.

Selected No. 2, from 2 to 4 inches in circumference. First-class blooming bulbs. Price, only \$3.50 per 1000, for quick orders.

T. W. WOOD & SONS, SEEDSMEN,
RICHMOND, VA.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

California Grown FLOWER SEEDS.

INGLESIDE NURSERIES,

F. EDWARD GRAY, Proprietor.

ALHAMBRA, CALIFORNIA.

I have a small surplus of 1895 grown seed, such as Sweet Peas, Cosmos, Petunia, Chrysanthemum, Zinnia, Aster, Mignonette, Cannas, Coreopsis, Gypsophila, etc.

Send for list and prices.

NOVELTIES FOR THE TRADE.

New Asparagus Sprengerii 30c. New Spirea Anthony Waterer 25c. New Climbing Meteor Rose 30c. New Golden Rambler. Yellow Souperl, New Crimson Rambler \$5 per 100. New Justica. New Double Rudbeckia. New Cannas. Carex Japonica. Bougainvillea. Hindolli. Dbl. New Life Geranium. Geranium Agnes Kelway, best pink. Send for Catalogue of Novelties and Trade Bulbs at low prices. A. BLANC & CO., Japanese Jardiniers at very low prices. List free. Philadelphia, Pa.

NEW BRANCHING ASTERS.

VICK'S WHITE BRANCHING..... per oz. \$2.00
" PURPLE "..... " 1.50
" ROSE "..... " 1.50
" EMERALD PINK "..... " 1.50
ZIRNGEBEL'S DOUBLE WHITE..... " 1.50

Trade packet of any of the above, 25 cts. or the set of five varieties, one trade pkt. or each, \$1.00. Write for our Catalogue.

VICK & HILL CO., Rochester, N. Y.



WHY DO YOU HESITATE?

Money will not Grow in your Pocket. The following items will, if planted now.

	Trade pkt.	Oz.
ASTERS Branching White.....	.25	\$2.00
“ Victoria, separate colors.....	.50	3.50
“ “ mixed colors.....	.50	3.00
“ Truffaut's Perfection, separate colors.....	.25	2.00
“ “ mixed colors.....	.25	1.25
“ Comet, mixed.....	.25	2.00
Carnation Marguerite, mixed.....	.25	1.25
Centaurea Gymnocarpa.....	.15	.40
Cobaea Scandens.....	.15	.35
Cosmos, mixed.....	.15	.40
Mignonette Machet.....	.10	.50
Nasturtium, Tall mixed.....	per lb.	60c.
“ Dwarf mixed.....	per lb.	80c.
Phlox Drummondii grandiflora, mixed.....	.15	.50
Primula Fimbriata, choice mixed.....	1.00	
Ricinus Zanzibarensis, mixed.....	.10	.15
Smilax.....	.15	.40
Stock Boston Market, white.....	.50	4.00
Thunbergia, mixed.....	.10	.30

WM. ELLIOTT & SONS, 54 and 56 Dey St., NEW YORK.



N. DAMES,

OF THE FIRM

Van der Horst & Dames,

(Formerly G. VAN DER HORST & CO.)

BULB GROWERS,

Heemstede, Lisse, Holland,

is on his round trip in America. To save time, we beg to address all letters up to April 20, care of Knauth, Nachod & Kuhne, 13 William St., New York. Our motto is "Fine stuff makes cheap prices." Our dealings in America is increasing every year. Write at once for quotations. Yours truly, **N. DAMES,**
OF VAN DER HORST & DAMES.

ASTER SEED.

This, and first part of next month is the time to sow seed for outdoor blooms of the celebrated strain of **Semple's Asters**; endorsed by the leading florists all over the country, either for indoor or outdoor blooming.

Largest flowers, exquisite color, Pink, White and Lavender, mixed seed (separate colors all sold) always a seller.

NO EQUAL in the market. Seed all grown in '95. Stock limited now. Order soon from

JAMES SEMPLE, Box 2, BELLEVUE P. O., PA.

NORTHRUP, BRASLAN, GOODWIN CO.

Being **GROWERS** we are in a position to supply **Seeds of First-Class Quality** and to make **specially low prices**. A trial will convince those who have not yet tried this out.

NORTHRUP, BRASLAN, GOODWIN CO.

20 to 28 Hennepin Ave., MINNEAPOLIS, MINN.

55, 57 & 59 N. Jefferson St., CHICAGO.

WE ARE HEADQUARTERS ON
**BULBS FOR FORCING,
FLOWER SEEDS FOR FLORISTS
ENGLISH MUSHROOM SPAWN.**

Special prices on application.

**JOHN GARDINER & CO., Seedsmen,
631 Market St., Philadelphia, Pa.**

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

CLEMATIS

Jackmanni, and all large flowering varieties, \$17 per 100

Rhododendrons, Snowball, H. P. Roses, Azaleas, Tree Roses, Pæonia Chinensis, Tree Pæonia, Double Flowering Cratægus vars., Lilacs, Hydrangea, Magnolia with buds, Etc., Etc.

ASK FOR PRICES.

L. C. BOBBINK, RUTHERFORD, N. J.
Branch of the Horticultural Co., Boskoop, Holland.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.



Giant Comet "Snow."

Pkt. 25c, 1/2 oz. 75c, oz. \$6.00.

VAUGHAN'S FLORISTS' ASTERS.

White Branching Aster.

This branches freely and grows pure white flowers 1 inches in diameter on very long stems. The petals are long, and many of them somewhat twisted, giving them the appearance of graceful chrysanthemums.

Pkt. 25c, 1/2 oz. 40c, 1 oz. 70c, oz. \$2.50.

Vaughan's Florist Mixture.

All of the best cut flower Asters, white, pink, brightest red, with a few blue and odd shades. This mixture is the strain for florists, containing only quick selling desirable shades. This is a good substitute for the higher priced separate colors.

Trade packet 25c, 1/2 oz. 60c, oz. \$3.75.

Asters, White, Mixed.

Contains all of the white flowering varieties suitable for cut blooms, and includes the Giant Comet "Snow" and the White Branching.

Pkt. 50c, 1/2 oz. 60c, 1 oz. \$1.00, oz. \$3.50.

FLORIST FLOWER SEEDS.

Strictly fresh new crop stock with all the latest novelties and all the standard varieties are shown in our Book for Florists, spring edition, mailed free on request. We have never yet printed an issue of this book that did not contain novelties which should be tried by every florist.

Have you used the Guillaud Carnations?

VAUGHAN'S SEED STORE,

NEW YORK:
26 Barclay St.

CHICAGO:
P. O. Box 688

Mammoth Verbenas.

New, large-flowered, very fine quality.
Per Ounce, \$1.50.

CHOICE FLOWER SEEDS For Florists.

Price List free on application.

HERRMANN'S SEED STORE,

413 E. 34TH STREET,

Near Long Island Ferry, NEW YORK.

We have been Printing

for nurserymen, florists and seedsmen for about 18 years. We have the "know how," the cuts, the equipment—hence, superior results.

J. Horace McFarland Co.

Mount Pleasant Printery,

Harrisburg, Pa.

NEW BISMARCK APPLES.

1 and 2 years old.

**CH. KOEHLER, Five Points Nursery,
Oxford Church P. O., Philadelphia, Pa.**
Mention American Florist.

F. B. ALLEY, Sec'y.

Stuart & Haugh, Anderson, Ind.: Certificates for seedling amaryllis and Kaiserin Augusta Victoria roses.

C. S. SWAYNE, Kennett Square, Pa.
Mention American Florist.

J. A. SHELLEM, 171h & Tasker St., Philadelphia.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

At dozen, \$1.50, and 100 rate, \$10.00.
Send for TRADE LIST of
NEW AND TESTED CARNATIONS.
PETER FISHER, Ellis, Mass.

Carnation Orders BOOKED NOW.

Good, clean, well-rooted stock. NO RUST.
Per 100 Per 1000

BRIDESMAID.....	\$5.00	\$10.00
METEOR.....	5.00	40.00
STORM KING.....	5.00	40.00
UNCLE JOHN.....	3.00	25.00
STUART.....	3.00	25.00
E. A. WOOD.....	3.00	25.00
GOLDFINCH.....	4.00	35.00
WM. SCOTT.....	2.50	20.00
DIAZ ALBERTINI.....	3.00	25.00
DAYBREAK.....	3.00	25.00

CHRYSANTHEMUMS.

	Each	Doz.	100
Mrs. W. C. Egan, new (ready March 1).....	.50	\$5.00	\$35.00
Tippecanoe, new (ready March 1).....	.50	5.00	35.00
Amaranth new (ready March 1).....	.50	5.00	35.00
Mr. E. M. Bigelow.....	1.00	8.00	
Mrs. S. T. Murdock.....	1.00	8.00	
Oakland.....	1.00	8.00	
Major Bonington and other choice older standard sorts.....	.75	5.00	

Send for descriptive trade list.

F. DORNER & SON,
LA FAYETTE, IND.

EMMA WOCHER, The New Shell-Pink Carnation

This Carnation is of a "lively bright shade," deeper than Daybreak, blooms measure from 2 to 2½ inches in diameter, fragrant, with a stem that carries the bloom erect at all times, calyx perfect, flower of good form; will grow erect with no other support than a V shape wire netting and is pronounced by all who have seen it to be an acquisition and many orders have already been booked. In our Cincinnati market it sells more readily than either Scott or Daybreak; it is not a cropper but a continuous bloomer.

Price for strong well-rooted cuttings, \$10 per 100; \$75 per 1000; 500 at 1000 rates. Cash must accompany all orders or satisfactory reference. Address

R. WITTERSTAETTER,
Sedamsville, Ohio.

Rooted Carnation Cuttings

THE 1896 NOVELTIES.
THE 1895 INTRODUCTIONS.
THE OLDER STANDARDS.
GOOD KINDS ONLY.
GOOD STOCK ONLY.

Apply for our 16-page Catalogue.

DAN'L B. LONG, JOBBING FLORIST
and Growers' Agent.

BUFFALO, N. Y.

WANTED.

Buyers for 100,000 rooted Carnation Cuttings of leading varieties, and 25,000 Lady Campbell Violet runners.

Send for list.

Wm. Swayne,

P. O. Box 226, KENNETT SQUARE, PA.

LOOK HERE!

1000 Buttercup Carnations, the best yellow to-day; healthy stock, 2½ inch pots, \$5 per 100. Cash with order.

CONRAD HESS,

329 Friendship Ave., Baltimore, Md.

Carnations, Rooted Cuttings & Mums

10,000 Scott; 5000 Hector; 5000 Daybreak, from flats, at special low prices, for strictly prime stock. It will pay you to correspond with us at once. Some varieties nearly sold out.

FROM FINE, HEALTHY STOCK PLANTS.

White—ALASKA, STORM KING, UNCLE JOHN, (no rust) MCGOWAN.

Pink—ROSE QUEEN, PEACHBLOW, ALBERTINI, SCOTT, DAYBREAK, CARTLEDGE, Etc.

Scarlet—HECTOR, PORTIA, CORSAIR.

Crimson—METEOR, PRIDE OF KENNETT.

Variegated—H. KELLER, MINNIE COOK, CHESTER PRIDE.

Yellow—DEAN HOLE, BOUTON D'OR, BUTTERCUP, Etc.

All well rooted and sure to give satisfaction. Send for price list.

ALL THE CREAM OF 'MUMS. Send for list and prices.

H. WEBER & SONS, Floral Park, Oakland, Md.

CARNATIONS

Per 100 Per 1000

ROSE QUEEN, ALASKA, MINNIE COOK,		\$5.00	\$40.00
WM. SCOTT, HELEN KELLER, THE STUART, DAYBREAK,	2.50	20.00	
THOS. CARTLEDGE, LIZZIE MCGOWAN, TIDAL WAVE, PORTIA,	2.00	15.00	

FROM FLATS.

EQUAL TO

POT GROWN.



VAUGHAN'S SEED STORE, 84 & 86 RANDOLPH STREET, CHICAGO.

NEW CARNATION, W. D. SLOANE.

This new sort will prove a leader to all Florists. We know of no better variety of its color, and none can equal it in fragrance. The plant is a strong and vigorous grower, needing but little support, with dark foliage about as heavy as Tidal Wave. Flowers are large, good substance and lasting qualities, borne on stiff stems 15 to 20 inches in length; color a beautiful cerise. Very profuse bloomer.

PRICE, \$10.00 PER 100; \$75.00 PER 1000.

Pitcher & Manda, Short Hills, N. J.

ROOTED CUTTINGS

CARNATIONS

	Per 100	Per 1000
DAYBREAK.....	\$2.00	\$15.00
WM. SCOTT.....	2.00	15.00
STORM KING.....	5.00	
METEOR.....	5.00	
PORTIA.....	1.50	12.50
TIDAL WAVE.....	1.50	12.50
BUTTERCUP.....	5.00	
MRS. FISHER.....	1.50	12.50
LIZZIE MCGOWAN.....	1.50	12.50
ANNA WEBB.....	2.00	15.00

I will give 10 per cent. discount for cash with order on the above prices.

EDW. J. TAYLOR, Southport, Conn.

CARNATIONS

Orders solicited for ROOTED CUTTINGS.

KOHINOOR takes the lead.

Other Novelties of the Standard sorts at standard prices. All healthy and strong.

C. J. PENNOCK,

The Pines. KENNETT SQUARE, Chesler Co., PA.
Mention American Florist

CARNATIONS

Rose Queen

	Per 100	Per 1000
Rooted Cuttings.....	\$4.00	\$30.00
Strong plants.....	6.00	50.00

No Rust with us.

A. DONAGHUE, Omaha, Neb.

CARNATIONS

Rooted Cuttings.

Perfectly clean and healthy, and will be well rooted when sent out.

Daybreak, Scott, McGowan, Puritan, Silver Spray, Tidal Wave, Portia.

Delivery Feb. 15 and later, \$1 per 100; \$8 per 1000.

Mme. Albertini, Emily Pierson,

Delivery Feb. 15 and later, \$1.50 per 100; \$10 per 1000.

TERMS CASH WITH ORDER.

MAGNUSON & PEARSON,

Bowmanville, Station X, Chicago.

DO YOU WANT CARNATIONS?

If so, why not GROW the BEST?

50,000 ROOTED CUTTINGS, including Daybreak, Wm. Scott, Goldfinch, Lizzie Gilbert, Emily Pierson, Lizzie McGowan, Tidal Wave, S. Spray, Hinz's White, &c.

Can do you justice in quality and prices. Write me before you buy. Address CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

Mention American Florist.

50,000 CARNATIONS

from flats, equal to pot grown. Warranted to give satisfaction. Cash with order.

	Per 100	Per 1000
ROSE QUEEN.....	\$5.00	\$40.00
DAYBREAK.....	1.50	12.00
WM. SCOTT.....	1.50	12.00
LIZZIE MCGOWAN.....	1.50	12.00
SILVER SPRAY.....	1.50	12.00
TIDAL WAVE.....	1.50	12.00
PORTIA.....	1.50	12.00
J. J. HARRISON.....	2.00	15.00
VIOLETS, MARIE LOUISE.....	1.00	8.00

HENRY A. NIEMEYER, Erie, Pa.

Baltimore.

The last meeting of the club was a very important one, as the committees for the year were to be appointed, and upon the judgment displayed by the president in selecting the show committee depends very largely the success or failure of the annual show; and upon his selection of an executive committee depends in a great measure the welfare of the club. The show committee as selected contains material for a skillful, experienced, energetic and perfectly harmonious effort at holding a grand exhibition, and if the show this year is not a complete success it will be owing to something that cannot now be foreseen. The gentlemen composing the committee are Messrs. Wm. A. Ekas, P. B. Welch, W. P. Binder, I. H. Moss and N. F. Plitton. The president wished to reappoint the old executive committee, but having put one member of it on the show committee found it necessary to make some change, he therefore deferred making the appointment till next meeting.

Mr. John Donn announced his intended retirement from business on June 1, having completed arrangements to dispose of his place to Montgomery Bros.

The near approach of Easter has had little effect on prices or sales yet. Good Perles are plentiful at 4 cents, Mermets 5 cents, extra choice white and pink buds 6 cents. Violets are about done, 20 to 25 cents being the most they bring. Some very good chrysanthemums were in Mr. C. E. Smith's window on the 24th. Tulips and hyacinths are plentiful, but *Lilium Harrisii* seems rather scarce.

The weather has been the most surprising succession of high and low temperatures that ever kept a poor florist guessing. Within the past ten days we have had the two heaviest snow storms of the winter, and between them days when the thermometer went up to 60°.

MACK.

Special Offer of Over Stock

	Per 100
Barberry, common, 2 ft.	12.00
" purple-leaved, 2 ft.	2.00
Buckthorn, 2 to 3 ft.	3.00
Cornus sanguinea, 3 ft.	6.00
Forstytia suspensa, 3 ft.	5.00
Hydrangea paniculata grandiflora, 2 ft.	6.00
Japan Pear, mixed, 2 to 3 ft.	6.00
Poplar Van Gertii and other sorts, 5 to 6 feet	4.50
Privet, California, 3 feet	3.00
" 2 feet	2.00
Symphoricarpos vulgaris, 2 ft.	5.00
Rosa lucida, 2 to 3 ft.	6.00
Spiraea Van Houttei, 2 ft.	6.00
Viburnum Opulus, High bush Cranberry, 2 to 3 ft.	6.00
Willow in great variety, 6 to 7 ft.	5.00
Hemerocallis fulva, single	3.00
" double	3.00
" flava	3.00
Asclepias tuberosa, blooming plants	2.00
Spiraea Japonica, fine plants	3.50

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GERANIUMS—Double and single, for bedding purposes, choice colors, per 100 \$1.50, labelled.

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Our Illustrated Descriptive Catalogue and Our Wholesale Trade List for 1896

— OF —

Carnations, Chrysanthemums and Cannas

is now ready, and will be mailed to every florist who sends us his **name** and **address**.

THE COTTAGE GARDENS,
C. W. WARD, Manager.

QUEENS, L. I., N. Y.

Roses, Carnations, and CHRYSANTHEMUMS.

All in A 1 stock, now ready for IMMEDIATE delivery. Inspection or correspondence invited to all who need such.

MRS. PIERPONT MORGAN now in extra fine condition.

JOHN N. MAY, Summit, New Jersey.

One dollar a seed last year would not have bought Burpee's "CUPID,"—when it won the highest awards from the National Societies of France and England.

Now one dollar buys one hundred seeds of any seedsman in the world.

PALM SEEDS

WE GUARANTEE	full germinating power & replace seeds non germinating
	Per 1000 Per 5000 Per 10000
Cocos Weddelliana.	\$12.00 \$55.00 \$100.00
Areca lulescens	10.00 47.50 90.00
Areca rubra	10.00 47.50 90.00
Geonoma gracilis	12.00 55.00 100.00
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On hand in excellent condition:

Latania Borbonica,

50c per 100; \$1.75 per 1000; \$12.00 per 5000.

Pandanus Utilis

\$1.50 per 100; \$12.50 per 1000; \$50.00 per 5000.

Chas. Schwake, 404 E. 34th St., New York.

PANSIES.

Grown from superior seed.	Per 100 Per 1000
Large transplanted plants.	\$.60 \$ 4.50
MAMMOTH VERBENAS.	.70 5.50
SMILAX, 2 1/2-inch.	1.00 7.00
NEW CALIFORNIA VIOLET—Rooted	
Runners.	1.00 8.00
AZALEA INDICA, 13 to 16-inch, full of buds, 65c. each.	

These plants are ready to be delivered at once.

S. WHITTON & SONS, Wholesale Florists,

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ROEMER'S SUPERB PRIZE PANSIES.

The finest strain of of Pansies in the world, including all leading Novelties.

Plants, middle size. 75c per 100; \$5.00 per 1000.

extra large, will be in bloom in few weeks,

\$1.50 per 100; \$12.00 per 1000. Terms cash or C. O. D.

Plants from cold frames.

PETER BROWN,

721 Marletta Ave., LANCASTER, PA.

Marie Louise Violets.

For want of room we will sell for the next 50 days, strong, clean, well-rooted runners for 60 cts. per 100; \$4.00 per 1000.

WELLENREITER & SCHWIEMAN, Danvers, Ill.

Gold Getters AND PRIZE WINNERS.

Strong, healthy, well-rooted cuttings, from soil, of the following

Choice Carnations for Sale

BRIDESMAID	-	\$5 per 100
ELDORADO	-	5 per 100
METEOR	-	4 per 100
STORM KING	-	4 per 100

CASH WITH ORDER.

The Cut Flowers of above varieties bring the highest prices in N. Y. market.

Our Cut Carnations consigned to W. F. SHERIDAN, 32 W. 30th st., New York.

E. W. WEIMAR, Mt. Vernon, N. Y.

MT. PLEASANT, Iowa, 2—26, 1896

J. J. STYER, *Dear Sir*—The carnations bought of your have been received in good condition and they were the finest rooted cuttings I ever saw.

Very truly, J. W. THOMPSON.

10,000 PLANTS OF MRS. FISHER, rooted in October and now in beds; the best white for summer blooming, \$15 per 1000.

J. J. STYER, Concordville, Pa.

Always mention the American Florist when writing to advertisers.

Rochester, N. Y.

Most of our retailers were rather busy in the past week; the bulk of the demand was funeral work. Some of the pieces were elaborate and costly, among them a large blanket made of violets and fringed with lily of the valley was gotten up in a very tasteful and artistic manner, light and natural looking. Other designs were numerous, and some of them equally elaborate and of large size, but only of the ordinary forms.

Flowers were not overplenty, and had the weather been more favorable perhaps there would have been a decided scarcity, but three days of snow storms and blizzards kept buyers at home, and the short supply was not noticed so much. Prices are about the same as last week, although an advance may be looked for at any time now.

The local growers of Easter plants are moving their stock from one house to another so as to have them just right for Easter; some have to be placed in a warmer place, others into cooler quarters to keep them back. Azaleas are in good shape everywhere, cinerarias, bulbous stuff, spiraeas, marguerites, genistas, etc., are plentiful, but by all appearance there will be a great scarcity of longiflorum, both pot plants and cut blooms; in several places the failure to get them out in time is laid to the unfavorable and steadily cold weather.

Vick & Hill are going to open a retail florist store on East Main street, and will be ready for business in a few days. Mr. Ed. Vick will have charge of the store, and his genial manners, together with the fact of being well known in the city through his long connection with the old seed firm of Jas. Vick, will undoubtedly assist him greatly in building up a large trade.

Mr. A. Rolker, of New York, was a visitor in town, also Mr. Killen, representing C. Joosten, of the same place. The first mentioned gentleman got somewhat disgusted with our fine wintry weather and left us by the next train, bound for New York, promising to return sometime when there was less snow on the ground. J. B. K.

DON'T WAIT AND GET LEFT, BUT GET YOUR ORDERS IN. Per 1000 Per 100
Mme. Sallier Geranium.....\$12.00 \$1.50
Cuphea platycentra (Cigar Plant)..... 8.00 1.00
Feverfew Little Gem..... 10.00 1.50
Salvia splendens..... 10.00 1.25
Alternanthera p. major and aurea nana..... 6.00 1.00
The above are grown in flats, and in fine condition.
A few thousand Vinca Variegata, 2 1/2-inch pots, \$2.50 per 100.

ROOTED CUTTINGS.
Golden Queen, the only all around yellow Coleus, and Crimson Verschaffeltii..... \$ 6.00 \$.75
Double Petunias..... 5.00 .75
Fuchsias, named varieties..... 12.00 1.50
Heliotrope..... 8.00 1.00
Double Golden Marguerite..... 12.00 1.50
Ageratum, blue and white..... 8.00 1.00
Selection of sorts to remain with us.

Cash with the order.
J. E. FELTHOUSEN, Florist, Schenectady, N. Y.

APRIL OFFER.
Per 100
Alternantheras, red and yellow..... \$2.00
Ageratum, blue, 2-in. pots..... 2.00
Geraniums, 3-in. pots..... 4.00
Smilax, 2-in. pots..... 1.50
Pansies, cold frames..... Small \$1, larger 1.50
Cash with order.

JOS. H. CUNNINGHAM, Delaware, O.

PELARGONIUM "THE BRIDE."
We again offer this Pelargonium, confident that you will agree with us that it is the best of its class for the retail florist, as its profusion of bloom and delicate beauty make it an irresistible attraction to your customers.
Price, plants in bud or blossom, \$6; by mail post-paid \$1 per dozen. Cash with order.
TILTON BROTHERS, 222 Grove St., Aurora, Ill.

SACALINE! SACALINE! SACALINE!



No other forage plant has ever created such wide-spread discussion as Sacaline. Much that has been said of it, especially by the enemies of the plant, has been pure speculation. Facts are, however, becoming established and while it has not been proved that it will yield 180 tons of forage per acre annually, as claimed, yet the statement that it will become a noxious weed has been proved false; as it cannot be induced to produce seed with us. That cattle and horses will eat it, both in the green and dry state, without coaxing, has been conclusively proved also. Its ability to grow and flourish during prolonged drought, when all other forage plants fail utterly, has likewise been proved the past summer—rendering it of value that cannot be estimated, in the West and Southwest at least, where the cattle interests are so great. But discussion and difference of opinion will, we fear, continue for a long time—in fact we are very much afraid Sacaline will have many enemies, and from no defect in the plant itself, the true Sacaline; but by reason of so many seeds and plants of worthless kinds of Polygonum having been sent out for it. We have no way of knowing accurately but from the best sources of information at our command, we are forced to the conclusion that there have been more than double the amount of spurious plants and seeds distributed throughout the United States for Sacaline than there have been of the genuine species, *Polygonum Sachalinense*.

Home Grown Roots, Strictly True and Pure.
The accompanying illustration is a fair representation of the plants of Sacaline we offer. They are well developed roots with perfectly formed crowns and numerous large, plump, fully matured eyes. They are simply perfect. Best of all we know positively that every one is the genuine Sacaline. We have tested the seed we offer and know it to be the true Sacaline and fertile. This is why we cannot offer it at such low prices as some others. It has been re-cleaned and is free of husk or chaff—all pure seed.
Roots, 100, \$5.00, 1000, \$45.00. Seed, oz., \$100; 1/4 lb., \$3.00; pound, \$8.00.



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200,000 Strong, hardy, nursery grown Roses. 100,000 Elegant Poplars, 5 to 25 feet, Carolina Aurea, Lombardy.
500,000 Pot Roses, Teas, China, Bourbon, etc.
Greenhouse plants of all descriptions.

ONE THOUSAND CAR LOTS OF OTHER ORNAMENTAL TREES, SHRUBS, Etc.

250,000 Peach, choicest sorts. 100,000 Nut bearing trees.
150,000 Pear, standard and dwarf 2,000,000 Small Fruits, Grapes, Currants, Gooseberries, Blackberries, Dewberries, Strawberries.
100,000 Plum, best European and Japan.
75,000 Cherry, Morellos, Hearts, etc.
150,000 Apple, Quince, Apricot.

We occupy one and a half miles on the bank of Lake Erie. No healthier, hardier trees are grown on the continent. Catalogue and Trade List free. Lower quotations given on large lots. Write us We can do you good

42nd YEAR. 1000 ACRES. 29 GREENHOUSES.

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PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

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	Per 100	Per 1000
ALYSSUM.....	\$.80	\$ 7.00
HELIOTROPE.....	1.00	9.00
PARIS DAISY.....	1.00	9.00
FUCHSIA.....	1.00	9.00
CHRYSANTHEMUMS.....	1.00	9.00
GERANIUMS.....	1.50	15.00

In 2-inch pots add 70c. per 100.
CARNATIONS—Rooted Cuttings.
Lizzie McGowan, Silver Spray, Louise Stugler, Daybreak, Tidal Wave, Scott, \$1.50 per 100; \$10.00 per 1000.
C. LENCENFELDER,
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	Per 100
Artemisia, silvery foliage.....	\$3 00
Achyranthes, four kinds.....	3 00
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Cinerarias.....	\$5.00 and 8 00
Epiphyllum, Lobster Cactus.....	8 00
Eulalia zebrina, Zebra Grass.....	8 00
Euphorbia splendens.....	10 00
Ficus australis, Rubber Tree.....	10 00
Fuchsias, general collection.....	\$3 to 4 00
Gladiolus.....	2 00
Geraniums, all kinds.....	\$3 to 4 00
Hibiscus.....	3-in. \$4; 4-in. 5 00
Heliotrope, 2-inch pot plants.....	3 00
Hydrangea, 3 and 4-inch.....	\$6 to 10 00

	Per 100
Helianthus.....	\$5 00
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Lemon Verbena.....	4 00
Lobelia.....	3 00
Moon-Flower.....	\$25 per 1000 3 00
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Alternanthera.....	3 00
Pandanus utilis, 2-inch pots.....	8 00
Pelargoniums.....	8 00
Petunia, double and single.....	5 00
Poinsettia, 5-inch pots, 20c each.....	15 00
Pansy, every variety.....	2 50
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	Per 100
Roses, Monthly and Tea.....	\$3 to \$4 00
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Verbenas, every variety.....	2 50
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Carnations.....	\$3 to 6 00
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Ferns. We grow Ferns for the mar-	
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to their growth.....	\$6 to 10 00
Palms and Decorative Plants. Our Palms	
are in fine condition, and we make better	
inducements than ever before.	
Bedding Stock of all kinds.	
Send for Our Complete	
Catalogue.	

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WILLIAMS & SONS CO.,

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GOOD STOCK.

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Achyranthes, Lindenii, Gibsonii, and	
Aurea Reticulata	3 00
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1, '96	3 00
Professor (new) dark foliage, 3	
and 4-inch pots, 35c. each; per	
doz., \$3.50	20 00
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Coleus, Golden Crown, Golden Bedder,	
Firebrand, Verschaffeltii, Ariel,	
Empress of India, &c., 2½-in. pots . .	2 00
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Echeveria Secunda Glauca	4 00
Fuchsia, in assortment	2 50
Geraniums, Grant, Heteranthe, Brunt,	
&c., 2½-inch pots	4 00

N. B.—All fine stock, strong and ready for a 3 or 4 inch shift. We have all leading varieties.

German Ivy, 2½ and 3-inch pots	2 50
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pots	2 50
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pots \$2.50	20 00
Vinca, Alba, Alba Pura, and Rosea, from	
flats	1 00

N. B.—Rooted cuttings of Coleus, &c. Prices on application.

The above stock is in fine order and will surely please you. Orders amounting to \$5.00 and over, f. o. b. at New York. Cash with order, or C. O. D.

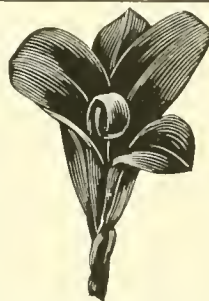
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NORWAY MAPLES

7 to 9 feet, first-class,
\$25 per 100.

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CANNA COLUMBIA.

Order direct from the originators. Pot plants now ready. Price 50c each; \$5.00 per doz.; \$40.00 per 100.

VERBENAS.

Fine stock; no mildew; \$2.50 per 100; \$20.00 per 1000.

ABUTILONS, leading varieties, our selection	\$3.00 per 100
Begonias, flowering varieties, our selection	3.00 "
Carnations, Lizzie McGowan and others	3.00 "
CALLAS LITTLE GEM	4.00 "

SEND FOR TRADE LIST.

I. N. KRAMER & SON,
CEDAR RAPIDS, IOWA.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, \$1.00 per 100; \$8.00 per 1000.

NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.

WE ARE THE LARGEST GROWERS OF VERBENAS IN THE COUNTRY. OUR PLANTS CANNOT BE SURPASSED.

New Carnation "Crimson Sport."

Large flower, finest velvety crimson, best keeper. Plants hardy, productive, free from disease. A good market variety. Send for list of rooted Carnation cuttings.

ROOTED CUTTINGS, \$1.50 per dozen; \$10.00 per 100; \$60.00 per 1000.

J. L. DILLON, Bloomsburg, Pa.

ANDORRA NURSERIES.

WILLIAM WARNER HARPER, Manager, Chestnut Hill, PHILA., PA.

SPECIALTIES:

LARGE { Specimen Ornamental Trees,
Hardy Rhododendrons and Azaleas.

Surplus Stock Evergreens.

	Per 100
European Silver Fir.....	2 to 3 ft. \$8 00
Balsam Fir.....	3 to 4 ft. 8 00
Black Spruce (Abies nigra) 3 to 4 ft. 10 00	
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All nursery grown and several times transplanted. Shipping begins April 1st. Catalogue free. Good stock cheap for cash.

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GARDEN SEEDS,

Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

HENRY A. DREER,
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E. G. HILL & CO.,
Wholesale Florists
RICHMOND, INDIANA.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Cleveland.

Bad weather, lasting through two or three days of the past week, caused flowers to accumulate in large quantities for the time being. Latterly, however, business took a slight brace, which helped somewhat to reduce the surplus to carry over into this week.

We got about the same dose of weather that was served out all over the country at the same time, a regular March blizzard, with all the accompaniments of snow, sleet, wind and cold that tend to make such things pre-eminently unpleasant.

Aside from that, there is little to be said about anything. The Williams & Wilson Co. is building three houses measuring 90x125.

At the regular meeting of the club last Tuesday, the matter of a floral exhibition at the time of the convention came up for discussion. The director of the centennial commission, Mr. Wilson M. Day, addressed the meeting relative to the matter and urged the club to take the matter up. There is of course, considerable diversity of opinion among club members as to the expediency of assuming the additional amount of work and expense that anything more than the usual trade exhibit would involve, but after some discussion, the matter was referred to a special committee of six (Mr. Day being one member) who are to meet the commissioners and report any proposition they may have to offer to the club. The report will be presented at the next regular meeting, April 14.

At that meeting the matter of a chrysanthemum and general flower show next fall will come up for final settlement. There does not seem to be much doubt that the verdict will be in favor of such an exhibition in view of the very good success of the one held last fall. That exhibit was planned and executed within four weeks and and no regrettable features were developed. With so much more time, a great deal more could be done. Be that as it may, however, an extra large attendance is desired and expected, as there is the time to talk for or against, and not after the matter is settled. Other business was practically routine, including the election of two or three new members. A.

CYCAS REVOLUTA.

Orders booked now for fresh imported stems, fronds and roots cut off; best long-leaved variety. Delivery from March 1st. Cultivated Cycas always on hand, rooted and well established, at low prices.

Lil. Auratum, Spec. Rubrum and Album, Etc.
Iris Kämpferi, in 100 choice varieties.
Japanese Maples, in best varieties.
Camellias, Pæonies, Tree Ferns, Rhaps, Etc.
Araucaria excelsa, choice cultivated stock at lowest prices.

For general Japanese stock apply to

F. Gonzalez & Co.

303 to 312 Wayne St., SAN FRANCISCO, CAL.

Association Flora,
BOSKOOP, HOLLAND.

CLEMATIS, Large-flowering sorts, \$15.00 per 100.

Rhododendrons in sorts, Pæonia, Bleeding Heart, Spiræa japonica, Azalea, Magnolia, Lilacs and Shrubs.

H. P. ROSES in sorts.

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Catalogue on Application. **JERSEY CITY, N. J.**

WATER LILIES.



The plants and roots we offer are large and strong, strictly true to name.

EGYPTIAN LOTUS.
(*Nelumbium speciosum*).

The grandest of all aquatic plants.
Doz., \$3.50; 100, \$25.00.

NYMPHÆA ALBA CANDIDISSIMA.

The largest, most beautiful and valuable hardy pure white variety.
Doz., \$3.50; 100, \$25.00.

NYMPHÆA MARLIACEA CHROMATELLA.

Large, beautiful clear light yellow, free flowering and entirely hardy.
Doz., \$3.50; 100, \$25.00.

NYMPHÆA ODORATA ROSEA.

The True Cape Cod Water Lily. Bright rosy-red in color, very fine and very sweet scented. The best commercial variety.
Doz., \$3.00; 100, \$20.00.

NYMPHÆA ODORATA SULPHUREA. Bright yellow, large, free and sweet. The very finest hardy yellow Water Lily. Doz., \$3.50; 100, \$25.00.

WATER HYACINTH (*Eichornia crassipes major*). Doz., \$1.00; 100, \$5.00; 1000, \$40.00.

PARROT'S FEATHER (*Myriophyllum proserpinacoides*). Doz., 15c; 100, \$3.50; 1000, \$25.00.

THE LOVETT CO., Little Silver, New Jersey.

Wisconsin Flower Exchange.
CUT FLOWERS

468 Milwaukee St.

MILWAUKEE, WIS.

SPECIAL OFFER OF.....

CHRYSANTHEMUMS

the following varieties: 2 1-4-inch pots, \$2.25 per 100; Rooted Cuttings, \$1.25 per 100.

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Dwarf Box per thousand yards. Maples, 2 to 3-inch caliper, and Oaks in variety per hundred.
Reliable hardy Rhododendrons, Azaleas, Hedge Plants, and other good stock for Florists at lowest rates.
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PALM Seed. NOW ON HAND FRESH CROP.

Chamaecyparis excelsa.....	per 100	per 1000
canariensis.....50c lb.	\$0.10	\$ 3.50
elegans.....50c lb.		
robusta.....50c lb.		
Erythea Aromatica.....	1.50	12.50
Latania borbonica.....	1.50	12.50
Phoenix leonensis.....	.35	2.50
reclinata.....	1.00	8.50
rupicola.....	1.00	8.50
slamensis.....	1.00	7.50
Sabal Blackburniana.....	1.00	8.50
serrulata.....	.50	4.00
Washingtonia filifera.....	.25	2.00
robusta.....	.35	3.00

A full list on application.

J. L. SCHILLER, Rutherford, N. J.

Mention American Florist.

CLEMATIS.

Two years, all large-flowering, choice named, leading kinds.....\$2.50 \$20.00
H. P. Roses, 2 years, 4-inch pots.....1.50 10.00
Pæonies, named in 10 choice sorts.....1.25 8.00
Daisies, Dbl. Eng. Snowcrest, Snowflake......50 1.00
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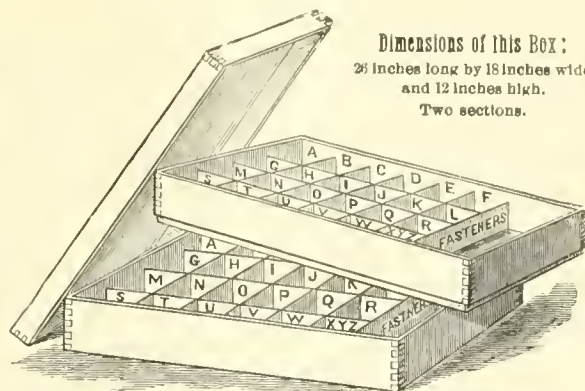
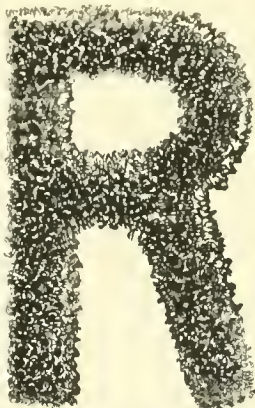
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News Notes.

NORTH EPPING, N. H.—The greenhouse of Daniel Dow was destroyed by fire on the night of March 16.

THE BERKSHIRE COUNTY Gardeners' and Florists' Club have fixed upon Nov. 10, 11 and 12 as the dates for their fall exhibition.

CANON CITY, COLO.—Connor & Flohr have given up the lease of R. D. Baker's greenhouses and Mr. Baker will continue the business.

HARTFORD, CONN.—Geo. A. Parker, formerly gardener in charge of the Old Colony R. R. stations has been appointed superintendent of Keney Park in this city.

PEORIA, ILL.—At the meeting of the park board March 19 \$300 was appropriated for the purchase of greenhouse plants and \$200 for the purchase of trees and shrubs.

BINGHAMTON, N. Y.—A resolution has been passed by the council directing that the committee on parks investigate and report as to best means of enlarging the park system.

PITTSFIELD, MASS.—V. H. O'mstead & Co. have sold out to John White the store on South street which they have conducted since last July. Mr. O'mstead will go to Oil City, Pa.

NEW ORLEANS.—The City Park commissioners are taking steps to add new territory to the City Park. Mr. Paul Capdeville has been elected president of the board of commissioners.

FALL RIVER, MASS.—Thos. W. Lawton died on March 12 of heart failure, aged 74 years. He had been in the florist business here for some years and was extremely popular among all classes.

ST. CHARLES, MO.—Mr. Jos. Gelven has purchased the greenhouses of Mr. A. Paule and will the coming summer add a range of houses for cut flower growing. He will grow for the St. Louis market as well as local trade.

POUGHKEEPSIE, N. Y.—The Dutchess County Hort. Society will hold its annual autumn exhibition November 11 to 13 next. The premium list is being printed and copies may be had on application to W. G. Gomersall, Sec'y, Fishkill-on-Hudson, N. Y.

NEW BEDFORD, MASS.—On the morning of March 19 the greenhouses of E. S. Haskell took fire. Prompt action saved the establishment from destruction, but quite a number of plants, comprising most of the contents of one house, were destroyed by smoke.

KANSAS CITY, MO.—The park board has adopted a resolution recommending to the city council that it take action looking toward the creation of the proposed Penn Valley park, which will contain about 125 acres. It will extend from the city limits on the south, Wyandotte street on the east, Twenty-sixth street on the north and Summit street on the west.

PROVIDENCE, R. I.—At a meeting of the Rhode Island Horticultural Society on the evening of March 18, Mr. Chas. Storer delivered an entertaining lecture on "A Ramble Among Greenhouses and Choice Plants." A large number of beautiful stereopticon pictures were shown giving the exterior and interior views from the estates of H. H. Hunnewell, F. L. Ames and other noted places.

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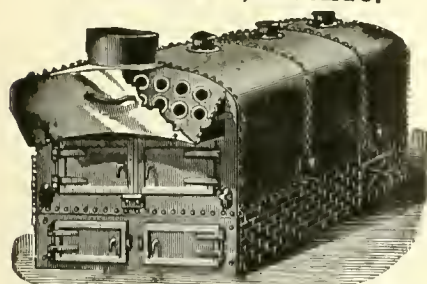
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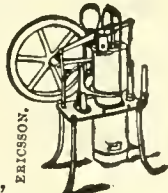
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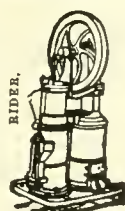
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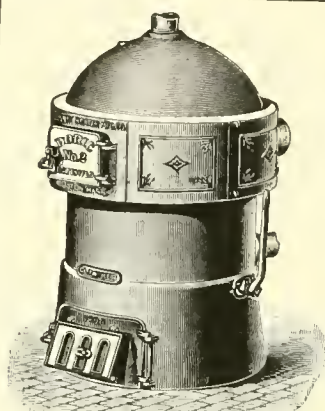
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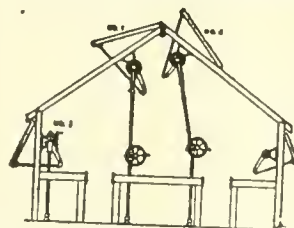
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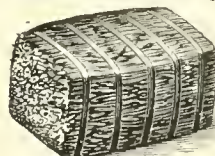
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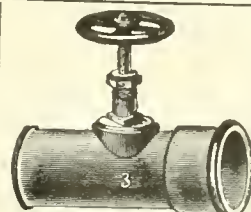
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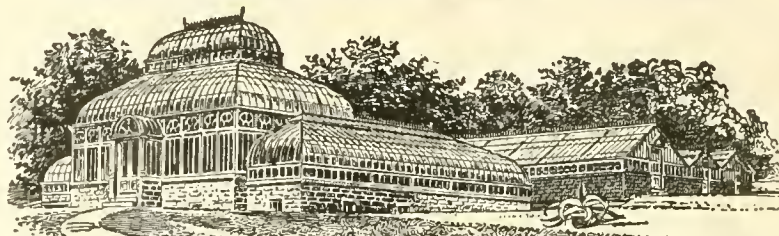
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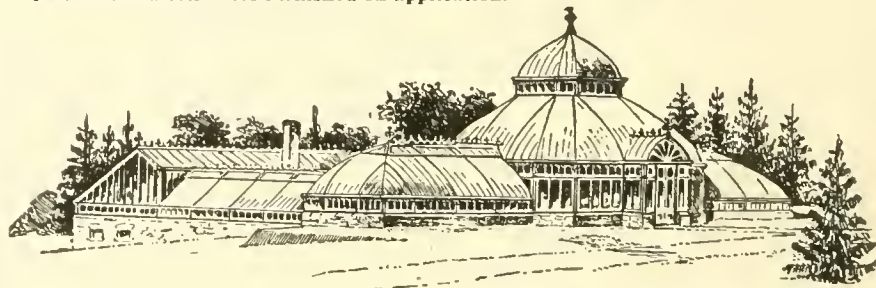
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THE AMERICAN FLORIST



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Vol. XI.

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secretary; H. B. BEATTY, Oil City, Pa., treasurer.
The twelfth annual meeting will be held at Cleveland, O., August, 1896.

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Heating.

Replying to the inquiry from David Cliffe—his new boiler being new and clean, makes steam much faster than the old one; his remedy lies in reducing the draft or grate surface to an extent sufficient to overcome the difference. Different causes will produce the conditions complained of, but in Mr. Cliffe's case the above suggestions if carried out will remedy the trouble.

Bay City, Mich.

JOHN IRVINE.



Carnation Notes.

Quite a number of inquiries about the construction of carnation houses leads me to give my views on the same, and a few hints may not come amiss. I will not dwell on the construction proper, for one has to build cheap, another has the means to build more substantially. Just as good carnations can be grown in a house that will only cost \$500 as in one that will cost \$1,000, providing the principles peculiar to carnation culture are observed, and to these I will confine myself. The cost is only a matter of means and durability.

The two most important points are light and air. Through the short days of the winter months sunshine is the most important factor for growing good blooms. Every hour's sunshine on cloudy days is of the greatest importance, and to derive the full benefit the house must have the lay from east to west, so as to present one full side to the rays of the sun. If the short-span-to-the-south style is adopted the effect of the sun's rays is much increased during the short winter days, when the sun is at the lowest.

When I mention air, I do not only mean thorough system of ventilating, I include also space. I consider it necessary that a carnation house should be roomy and airy, and one should not be misled by the idea that while carnations are rather low growing plants a low house is sufficient for its culture; this is a grave mistake. It is not essential to have the plants near the glass; if the house is light and airy the benches are much better near the ground, elevated at a height so they can be worked with comfort, and high enough so they are exposed to the full rays of the sun. Houses 20 feet wide, and from 10 to 12 feet high under the ridge, are much better than the lower and narrower ones. I prefer to have room, air, it comes so much nearer to the outdoor cultivation, gives better circulation of air, facilitates ventilation, for the ventilators can be opened on cold bright days, when often the temperature inside becomes uncomfortably warm for the plants, without any danger of chilling them. The cold air coming in at the ridge has to mix first with a large quantity of warm air before reaching the plants below; while in low houses the cold air comes in in a stream direct on the plants without having a chance to become modified, or when it comes in gusts will leave the plants one moment

cold, the other warm, and this will always have bad effects.

To make ventilating perfect it should open at the ridge and be continuous. When opened at the ridge it will keep the house in a much more even temperature in every part than when binged to the ridge and opened below. The exchange of the hot and cold air is more even, nor will it blow in in gusts, as the stream of air will blow over and is not caught under the ventilating sash. Side ventilation is preferable through spring, summer and fall, but with a thorough top ventilation can be dispensed with.

Regarding the interior arrangement, I would invariably advise keeping the benches away from the walls. It is better for the plants and saves the walls. A free circulation of air all around, and plenty of it, is what is needed, and the plants nearest the wall will always make a poor growth anyway, or be too near the glass.

About the style of houses. I am partial to short-span-to-the-south for reasons stated some time ago in some of my notes; it also economizes in cost of construction and in space, as they can be built in a range together without one shading the other. Even span, and more so three-quarter span houses, have to be built separate, far enough apart to prevent one from shading the other. It is far from me to assert that just as good flowers cannot be grown in an even or three-quarter span, especially can this be done when there are many bright days; but in much cloudy weather through the short winter days I give the preference to the short-span-to-the-south.

FRED DORNER.

Bacteriosis of Carnations.

Bulletin No. 59 of the Agricultural Experiment Station, Purdue University, just published, is devoted to this disease, being the result of long and careful investigation on the part of Professors J. C. Arther and H. L. Bolley. It is a most valuable document; dealing with an obscure disease that is, in the opinion of experienced carnation growers, more to be dreaded than the better-known rust, while the present publication is the first relation of its life and environment from the scientific standpoint.

According to the description here given, bacteriosis is a disease of the carnation leaf, rarely attacking the stem or other parts of the plant; generally starting in the leaf when immature. The affected leaf, even when its surface presents no unusual appearance to the eye, if held towards a strong light, shows small pellucid dots scattered irregularly through it, sometimes having a faint yellowish color. The appearance of these dots resembles the oil glands in the leaves of the St. John's wort (*hypericum*). Sometimes the surface of the leaf is slightly

raised over the dots, making watery pimples. After a time the surface of the leaf changes, finally showing a distinct spot; as it extends inside the leaf the surface tissues dry, the internal tissues collapse, and whitish sunken spots appear. In some varieties the spots change to a reddish or purplish tinge, but the authors of the bulletin do not regard this as being in any way connected with the disease known as "purple joint." As the spots increase in size the leaves wither, but continue to cling to the stem. The spots never show a dark center, and rarely make any concentric circles, such as those caused by spot disease or fairy ring.

After the isolation and artificial culture of this bacterium experiments were made in the artificial inoculation of healthy plants. It was found that while all members of the *Dianthus* family could be inoculated with it, it appeared powerless to affect other classes of plants. It found its readiest prey among young, immature or weakly plants, and its progress was often followed by fungous disease. A summary of the bulletin is as follows:

1. Bacteriosis of carnations is a widespread disease of the carnation plant only recently recognized.

2. It is seated in the leaves but affects the whole growth of the plant, and checks the production of flowers.

3. The disease is caused by parasitic bacteria entering the plant from the air through the stomata, or occasionally by the punctures of aphides.

4. The germ associated with the disease may be separated and shown by artificial infection of healthy plants to be the cause of the disease.

5. The germ will grow well at any temperature not inimical to the life of the carnation plant.

6. The disease does not usually affect other pinks beside the carnation, but may be artificially transferred to several species.

7. Plants outside the pink family will not contract the disease, naturally or artificially.

8. Any varieties of carnation may be affected, but old and weak or poorly grown varieties are most susceptible.

9. Plants may be kept essentially free from the disease by keeping the foliage dry and preventing the presence of aphides.

10. Watering a carnation house is to be done by directing the stream of water between the rows beneath wire netting arranged to support the foliage.

11. Overhead spraying is only to be done occasionally on bright days, and with water containing a small amount of ammoniacal copper carbonate.

It will be observed that Dr. Arthur's investigations, extending over a period of six or seven years, uphold the opinions of our best growers, who look on careful cultivation as the best preventive of any disease. The bulletin may be obtained by addressing the Agricultural Experiment Station, Purdue University La Fayette, Ind.

Fighting the Rust.

I wish to know how often the copper solution should be applied upon carnations, which are badly covered with rust.

I have tried one pound of dry arsenic to a barrel of water and it seems to go for the rust but burns badly in spots and I am afraid it would kill the plants as well as the rust. The above solution was given a few weeks ago in the *FLORIST* but seems to me a great deal too strong. Perhaps I got it too strong, as I first dissolved the arsenic with soda in boiling water. R. D. B.

In a case where one would use the copper solution for the first time, I would say to use it once a week for two or three weeks in succession, and after that once in two or three weeks. I am afraid where too much spraying is done with the different remedies, the ground may become so saturated with the poisons, that the plants eventually will be killed from the roots. I will say here again that the

copper solution carbonate of copper, potassium and others are no absolute remedy, undoubtedly the spores that come in contact with the spray will be killed, and nothing more. It is therefore a great help to check the disease, and wherever used will do much good. It will have the same beneficial influence on bacteria and other fungoid diseases as on rust.

On the arsenic remedy I can not say anything, as I am so fortunate as not to have any chance to try it. But from appearance I believe that when a plant is very badly covered with rust, and the arsenic takes effect on every rust pustule as stated by those who made the experiments, not much will be left of the plant.

FRED DORNER.

Carnations in the Exhibiton Hall.

In the opinions published I think but one man has hit the "key note." It is the crowd. To illustrate: I have found that carnations exposed for sale in a large cool tent at our agricultural fair would go to sleep in a few hours. It is impossible to keep any kind of cut flowers awake for more than six hours when the tents are full of people. This has occurred again and again in all weathers and in October, the best show month for flowers in this section.

Our remedy is fresh flowers every day and I think that unless the exhibition blooms are shown in a glass case, where air can be given and no exposure to the poisonous gases generated, fresh flowers each day is the only remedy.

Danbury, Conn. F. L. BUTLER.

"Sleepy" Carnations.

Regarding "sleepiness" of carnations, caused by fertilization before or during exhibition, it seems to me that it might be worth the while of exhibitors to remove the styles from such flowers as they propose to exhibit before they reach maturity; experimentally of course. It will cost something, but far greater pains and expense have been lavished on exhibition specimens of the "divine" flower, as some of your readers know.

Trenton, N. J. JAMES MACPHERSON.

Massachusetts Horticultural Society Awards at Spring Exhibition.

A full description of this show was published in our issue of last week. The list of awards was as follows, the party first named being in each case, except where otherwise noted, the exhibitor receiving first prize.

Cut flowers: Hybrid perpetual roses, David Nevins, American Beauty, C. V. Whitten, second. Bridesmaid, W. H. Elliott, C. V. Whitten. Meteor, C. V. Whitten, second. Bride, W. H. Elliott, C. V. Whitten. Mermet, the same. Gontier, W. H. Elliott. Vase assorted blooms, David Nevins, C. V. Whitten. Pansies, J. S. Fay. Violets; Czar, H. S. Rand, Lady Hume Campbell, D. Nevins, W. C. Winter. M. Louise, D. Nevins, H. S. Rand. Swanley White, D. Nevins. Camellias, J. H. White, Jas. Comley.

Plants; Indian azaleas, Bussey Institution, two firsts, three seconds. Dr. C. G. Weld, two firsts. Norton Bros., one first, James Comley, one second. Ericas, Bussey Institution Hardy orchids, forced hardy herbaceous plants and shrubs, hardy flowering deciduous shrubs, hardy flowering evergreen shrubs, all to Bussey Institution. Greenhouse plant in bloom, Dr. C. G. Weld, E. S. Converse. Hard wooded greenhouse plants in bloom, Dr.

C. G. Weld. Hybrid perpetual roses, Jas. Comley, first and second. Hardy primroses and polyantheses, J. L. Gardner, Dr. C. G. Weld, David Nevins. Auriculas, Dr. C. G. Weld. Cyclamens, 10 plants, Mrs. B. P. Cheney, N. T. Kidder, Mrs. B. P. Cheney. Ten plants in not over 7-inch pots, Mrs. B. P. Cheney, the same second, N. D. Kidder third. Single plant, N. T. Kidder, David Nevins. Cinerarias, six varieties, John L. Gardner, Mrs. B. P. Cheney, J. S. Bailey, Bussey Institution. Three varieties, Mrs. B. P. Cheney, John L. Gardner, E. S. Converse. Single plant, John L. Gardner, Mrs. B. P. Cheney, E. S. Converse.

Spring flowering bulbs—Hyacinths, 12 varieties, one in each pot, John L. Gardner, Bussey Institution, Dr. C. G. Weld; six varieties, Dr. C. G. Weld, E. S. Converse, Bussey Institution; three varieties, Dr. C. G. Weld, E. S. Converse, Bussey Institution; single bulb, Miss M. S. Walker, Dr. C. G. Weld; three pans, 10 bulbs of one variety in each pan, Miss M. S. Walker, Dr. C. G. Weld, John L. Gardner; two pans, E. S. Converse, Bussey Institution, Miss M. S. Walker; single pan, Bussey Institution, Miss M. S. Walker, E. S. Converse. Tulips, six, nine bulbs of one variety in each, W. S. Ewell & Son; three pans, W. S. Ewell & Son; three pans, 12 bulbs of one variety in each pan, Miss M. S. Walker. Polyanthus narcissus, four pots, three bulbs in each, Dr. C. G. Weld. Jonquils, six pots, Bussey Institution, Dr. C. G. Weld, W. S. Ewell & Son. Narcissi, six pans, W. S. Ewell & Son, Bussey Institution; three pans, W. S. Ewell & Son, Bussey Institution. Liliun Harrisii, six pots, E. S. Converse, Mrs. B. P. Cheney. Lily of the valley, six pots, Bussey Institution, W. S. Ewell & Son, the same third. Anemones, three pots, Bussey Institution. Freesias, six pots, Bussey Institution, Dr. C. G. Weld, John L. Gardner. Ixias and tritonias, six pots, Dr. C. G. Weld, the same second. Roman hyacinths, six pans, 10 bulbs in a pan, W. S. Ewell & Son. General display of spring bulbs, all classes, Bussey Institution, W. S. Ewell & Son.

The society's silver medal was awarded to Jackson Dawson for Crimson Rambler rose, and to Dr. C. G. Weld for *Acacia Drummondii*. J. F. Huss received honorable mention for *Adiantum Ethiopicum*, and also a certificate of merit for *Streptocarpus Wendlandii*.

Views at the Spring Exhibition of the Mass. Horticultural Society.

One of the illustrations herewith presented gives a general view of the upper Horticultural Hall where the spring flowering bulbs and greenhouse plants were staged. The other shows the group of 75 cyclamens exhibited by Mrs. B. P. Cheney, John Barr, gardener.

The Violet.

Following we give the papers read at the recent "violet meeting" of the Chicago Florist Club and a condensed report of the discussion that followed.

VARIETIES AND STYLE OF HOUSE.

I think it is a duty that belongs to us all who are growing flowers for market to study this question, and after we have studied it to give our experience as best we can for each other's benefit. The violet certainly cuts a great figure in the trade, during the winter months especially, and I feel with a few other members of the club that it has been greatly neglected here, considering the position it



GENERAL VIEW IN UPPER HALL:
SPRING SHOW MASSACHUSETTS HORTICULTURAL SOCIETY.

holds with other cut flowers and the difficulty met with in its culture. If a man is growing roses and carnations, has first class stock, soil, etc., and knows his business, he is most always sure of success, but he may have everything he desires when he plants his violets and he is always a little shaky about them. Why is this? The chief reason is, I believe, because we do not get our heads together as often as we should and tell our troubles. What one man does not know another does, and vice versa.

In regard to varieties, it is my opinion that we only need two, a double and a single, and we cannot afford to be without either. You all know the qualities desired are a large flower, deep color, lots of fragrance and fairly good stems. We have tried several varieties at our place this winter. These are Robert Garrett, a double, no use whatever on account of its color, it being a pale blue. Swanley White is first-class in every respect except selling qualities, but a white violet won't sell, at any rate that is our experience. Lady Campbell is a very fine double violet and fragrant, and is excellent as a pot plant (it sells on sight), but the stems are too short with me for cutting purposes. The only two that I have any use for are Marie Louise, double, and California, single. There may be better but I don't know any, and I think that where the

Marie Louise does not succeed the California will; the latter is the surest money maker and does not appear to be so touchy and self-willed as the double one.

While Marie Louise is doing first rate with us now, it has not paid us so well as the California. Here are the figures for the California. We put in 300 plants on a bench of 195 square feet, planted the 1st of September, commenced picking the latter part of the same month, and until about the 1st of December we had picked 4925 flowers, which brought \$61.50. We sold about 700 of them retail. Then by a mishap to our heating pipes the house was frozen and it took off all the leaves, as the temperature went down to 18° several nights. It kept along that way, freezing to thawing, until the last of January when we got the pipes working right again. We had only picked about 500 blooms during that time, for \$5.00, and from that time until now we have picked 11,600 and sold them easily for \$93.45, having picked over 3,000 flowers in one week; total flowers picked 17,025, cash \$159.95, or at the rate of 82 cents per square foot and they look at present as though they will easily reach the \$1.00 mark.

As for kind of a house I think William Scott's ideal violet house is as good as any. We built one after his plan last year and it proved very satisfactory. This

house runs north and south, is 11 feet wide inside, a bench on each side with a walk in the middle, butted glass, to be taken out in summer. I prefer benches to solid beds, as I think we can get flowers earlier that way, and as usual the early bird catches the worm.

JAS. HARTSHORNE.

A FEW WORDS ON GROWING VIOLETS.

Violets have been grown at our place for the last ten years or over without any total failure. Our mode of culture is as follows: We most generally take our cuttings or runners (whatever you may call them) and put them in shallow boxes to root, which takes about three weeks. These runners we make about the first of October and after being well rooted we put the flats in a place where they get plenty of air, and we generally keep them where the night temperature does not exceed 40° during the winter, and after February 1 we take them out of flats, pot them in 1¾-inch pots, keeping them in the same temperature with plenty of air, and by April 15 they will have plenty of roots and are ready to be planted out doors.

Preparing land to grow them in. We generally grow our violets without any manure whatever in the ground, but we take grass land and plow it over one year and grow corn, etc., on the same the first

year, and the next year it is plowed and wellsubsoiled about 15 inches to 18 inches deep in the fall. The next spring it is only cultivated with a common seven shovel cultivator to loosen the ground, then they are planted out about 12 inches in the rows and the rows 18 inches wide. After they are planted we cultivate them with a harrow cultivator once a week and keep all the runners well picked off excepting those that we want to propagate from, which we let grow in order to get the cuttings for the following year. The cultivating is done once a week, whether weeds grow or not, in order to get what the nurserymen call the "dust mulch," and after every rain they are cultivated in order to keep the moisture there. We generally transplant in greenhouse about October 1.

Soil for benches. We generally put four to five inches of black soil on the benches and one inch of leaf mould on the top of that, so that we don't have many weeds on the benches. We never transplant them except in cloudy weather, otherwise the roots are always hurt. We give them about 45° night temperature and about 60° during the day. We never have had any disease to amount to anything after first year of culture. GEO. KLEHM.

DISCUSSION.

Mr. Hartshorne was asked if he realized as much per square foot on his Marie Louise violets as on the California.

MR. HARTSHORNE.—They do not pay so much per square foot. They were way behind the California.

MR. KLEHM.—We get about 90 cents per square foot of bench during the season from our Marie Louise.

MR. ROBINSON.—My experience has been that the double are far ahead of the single. I have had California. It has been hard to get rid of the single.

MR. WIENHOEBER.—My customers tell me they like the single ones better than the double, but they say they keep poorly. No, the single violets do not keep so well on an average as the double. The same thing is true, I am told in New York. Thorley told me he could not sell nearly as many singles as he could doubles. I believe that if a good single violet that will keep well comes in now it will sell better than the other. The California has a better stem and nicer foliage. If I were growing violets for market, would grow more California than double. Czar is liked very much by the people. It is a late spring variety.

Answering the question, "What kind of soil does the violet grow best in?" Mr. Klehm said, "We used to grow almost altogether in leaf mould, but of late years we have used black soil and put leaf mould on top in order to keep the weeds out." (Question is asked if Mr. K. thought that violets needed lighter soil than he had). No, I think they grow all right. Violets have very fine roots, and we consider in the nursery business that anything that has real fine roots needs light soil; heavy roots heavy soil.

MR. A. H. SNYDER.—We have very heavy black soil. Until the first of February our violets are first rate but after that the soil is washed down so solid they go up. I think they do better in a lighter soil. We carry them through the summer in the same way as outlined by Mr. Klehm.

MR. WIENHOEBER.—I find as a rule that single flowers sell every bit as well as the double. I sell twice as many single narcissus as I do double. People like the single. If the California violet had the same lasting qualities as the Marie Louise,

I feel sure it would sell just as well. The same thing is true in the geranium line. I do not sell a double geranium in a year.

In response to the inquiry, "Do we want a red violet?" Mr. Wienhoeber replied "I think the violet must be blue in order to be a violet."

Diseased Palms and Dracæna.

I send portions of diseased leaves from a palm and a dracæna. What is the name of the disease, its cause and remedy?

A. R. M.

The specimens referred to were received in poor condition, but appear to be portions of leaves of *Washingtonia filifera* and *Dracæna indivisa*, and are affected with what is commonly known as "spot."

The disease in this case is probably the same as that which frequently disfigures the leaves of *Pandanus utilis*, and is caused by a "mite" or insect of microscopical size which burrows in the tissues of the leaf.

Both the *Washingtonia* and the *dracæna* are somewhat subject to this trouble, and it seems to be aggravated by overwatering during the winter. Sulphur is recommended as a possible remedy, and may be applied either by dusting the plants thoroughly on both the upper and under surfaces of the leaves, or through the medium of a solution of sulphur soap in which the plants should be dipped.

W. H. TAPLIN.

Genistas.

Are *Genistas canariensis* and *G. fragrans* the same? If not, what is the difference, and which of the genistas is the best to grow?

A. J. B.

The genistas have been much mixed of late years, partly from the fact that a number of seedling variations from the original varieties have been introduced by different growers.

The two varieties that are best known are *Genista canariensis* and *G. racemosa*, *G. fragrans* being a synonym of the latter, and the chief distinction being found in the shade of color in the flowers, *G. canariensis* being lighter in color than the other.

I believe that *G. racemosa* is the best of the two, though both are very beautiful, and there is also a variety of the latter known as *G. Everestiana* that is very good, the flowers of which are nearly orange yellow.

It may also be added that while the most common nomenclature has been adopted in these notes, yet it is not quite correct, the proper name for the plants in question being *Cytisus*. W. H. TAPLIN.

Steam or Hot Water.

What system (steam or hot water) would give me best results in heating my greenhouses, and how should it be put in? My houses run east and west and are three in number, 250 feet long each, the first house 22½ feet wide, north wall 8 feet, south wall 4 feet, second and third houses are 16 feet wide even span; the houses are divided in the center on the north side by a shed and office 20 feet each way, and connecting with the shed an even span house 16 feet wide running due south.

Hot water is used now but have not enough power for the increased amount of glass, two boilers at present doing what work is required, but as I need more power should I put in one large boiler doing the whole work, and steam or hot

water? There will be about 22,000 square feet of glass.

Carnations are principally grown, but in one-half of No. 1 roses, and center house which I would like for a forcing house, benches in second and third houses are built away from the walls so that pipes can be hung or put on the walls.

The houses have no protection from cold winds and are separated 7 feet apart; the coldest weather 10 below zero the boiler pit is under the shed. I have asked prominent men in my line but answers varied so much that I concluded to ask a favor of your readers. C. B.

For a plant of 22,000 feet, your correspondent C. B. asks which of the two systems is the best; the bulk of the glass being used for carnations. This is a question over which there has been more discussion probably than any other one point of our business, and probably is as far from being definitely settled to-day as it ever was.

We have three distinct methods of heating in daily use here on rather a large scale, namely steam, hot water by gravity, and hot water under pressure, and after giving the steam three years careful and comprehensive test against the hot water we find that with us it costs about 30% more to maintain the same temperature by steam than it does by hot water. I know that this is contrary to the experience of many, but the conditions are not always the same in all places.

In many cases which have come under my notice where hot water has been changed to steam and where the latter is claimed to be an improvement it is because the hot water system was not of the best construction, with poor class of boilers, poorly arranged piping and often insufficient piping and overloaded boilers. Little wonder is it that when the system in such a place is changed to steam with ample boiler power and ample piping that a decided improvement is made, but does this clearly prove that steam heating is decidedly better than hot water? I contend it does not, rather the contrary.

To arrive at a fair and impartial conclusion I believe in taking the most approved methods, and in boilers, piping, etc., of both systems fit them up with every opportunity for both to work at the greatest advantage possible, i. e., let your hot water boilers be at least one fifth larger capacity than is ever actually demanded of them, have plenty of radiating surface (piping) for all kinds of weather, without hard firing to maintain the desired temperature, have exactly the same conditions for the steam heating system, with the best modern boilers for both systems and the result will be very different in a great many cases. In ours it is very greatly in favor of the hot water.

For that reason I advise C. B. to keep to his hot water system, adding a really good boiler of ample capacity to do all the work required. If his present boilers are good and doing satisfactory work I should not advise changing them but simply add another to them. In arranging his center house for additional heat it is very easily done by adding additional piping according to what temperature is required. For the houses where the benches are built away from the walls I should advise using 2-inch gas pipe; hang it on the sides one above the other, three of these are equal to two ordinary cast iron pipes.

In putting in a new boiler if practical and can be done conveniently it would be



MRS. CHENEY'S DISPLAY OF CYCLAMENS.
SPRING SHOW MASSACHUSETTS HORTICULTURAL SOCIETY:

a great advantage to connect it with one of the present boilers, then in mild weather, spring and fall, only one boiler might do the work easily, adding the other in colder weather; by this means quite a saving in coal is made, as the slowest fire burns considerable when kept in constantly and often in mild weather only a very little fire is needed in a large boiler, and one can easily do the work of two.

If C. B.'s houses are built on the same level all this can be very easily arranged so that an even flow of circulation can be maintained through all the houses at all times, which is a very important point in arranging any hot water system, then with care and reasonable judgement in firing he can sleep sound in all weathers, which he may not always be able to do with steam. If C. B. can make it convenient to call here at anytime I shall be pleased to show him our systems and figures for comparison between the two methods of heating and the results obtained from same.

JOHN N. MAY.

Summit, N. J.

Tightening a Tank.

How can I tighten a 3,000-gallon cypress tank put up about a year ago, second hand at that time? I expect to have a steam outfit in May to pump water into the tank, and would like to tighten it first.

F. J.

This is somewhat of a conundrum, as your correspondent does not say whether it is a round, oval, square, oblong, deep or shallow tank, so that no definite idea can be formed as to what is his trouble.

If it is a round tank supported by iron hoops it is the simplest thing possible to drive the hoops down till all the joints are quite tight; this would be done when the tank is dry, and if in the process the top hoop is driven down too low to hold the top part of the staves in proper position another hoop should be fitted tight near

the top edge. In driving the hoops a square headed cooper's mallet should be held squarely on the top edge of the hoop and the hammer used on this to avoid battering the edges of the hoops.

If it is a square tank F. J. should say where it leaks and how made, so that a better idea of how to remedy the trouble can be arrived at. Square tanks can be readily made water tight by a little extra bracing if well made in the first place. In any case when once a tank is made water tight it should be kept filled up with water at least once every twenty-four hours.

JOHN N. MAY.

Some Observations.

I have been a subscriber to your valuable paper several years, and from it I have learned many good points on different subjects that go to make up a florist's knowledge of the profession.

Experience of different writers on many subjects are at times very conflicting, and requires no little judgment on the part of the reader to apply other's success or failure to his own case. Conditions of air, soil, light, water, heat and watchfulness, tempered with good judgment, are the fundamental principles that govern the success of an experienced grower.

I have many times heard the question, "Where did you learn the business?" My reply has always been the same—"I have never learned it, and never expect to." Having been established in the business several years I realize the fact that I have it yet to learn, and the sooner some of those that have served three or four years potting and running errands realize that fact the better help they will make for their employers.

No matter how well posted a man may be on general matter pertaining to plant and flower growing, he will find others perhaps with less experience that will excel him in some things. Then my good

brother florist, don't be conceited and think that you know it all.

It is a too common error among the "old school" to think a man who has not served a number of years at the business in the "old country" don't know anything, and will try so put him down in others' estimation for the sole purpose of lifting himself up, while he may not with all his years have the ability of the belittled man.

I have had men in my employ who thought they knew it all, and others that did not know much of anything but were willing to learn. The former I have no use for; the latter I have found to make good help after a little time. I had rather have one "would be" than a dozen "has beens."

This business of ours is a progressive one, and it behooves us to keep scrambling for the top, no matter what others do to set us aside. If you ever get there don't go to seed, for some little kicker whom you may least expect will upset your big seed pod and then—well you know the result.

NAHANT.

Greenhouse Building.

[Extract from paper read before the Dutchess County Hort. Society by D. E. Howatt].

Close attention to what can be seen and heard during extensive travel among our florists would lead the writer, without hesitation, to say that a full span, north and south house, 22 feet wide, 200 feet long, iron frame, side sash, roof of 18x18 inch glass for puttyless, and 18x22 inches for putty-glazing, thirty-three degree pitch, top ventilation, 2-inch wrought iron pipe for hot water heat, and benches to fill the requirements of the owner, is about as near the general grower's ideal, as any one thing could possibly be. This house is adapted to grow about anything pretty well and a majority of everything mighty well.

If the writer were to again enter the

lists and grow stock for the market, nothing would be built but large houses, say 28 or 30 feet by 200, constructing with iron posts, iron purlins, sash bar rafters for 18x18 inch glass, puttyless glazing, top ventilation and side sash for light, and ease of working, hemlock benches, 2-inch wrought iron pipe, hung in proper pipe hooks along the sides, and on the roof supporting columns; hemlock base boards with good water table, side sash, sill and siding, no gutters, but if possible brick or cement walks. The same house with the usual embellishments could be built for private places, and perhaps as time went on and money accumulated, iron and tile would be substituted for the hemlock benches. Unless the water is needed, gutters are not only a useless expense but a great obstruction to sunlight and the rapid disappearance of snow.

Special span and exposure houses came into existence and were made necessary because of the heavy frame and small glass used in construction at that time. They are still largely used for special purposes, but they cannot fill the bill for our ever changing market necessities anywhere near so well as the even span will do.

Through American Eyes.

WINDSOR CASTLE.

The visit to Windsor Castle and its beautiful surroundings, together with the call at Turner's establishment at Slough, and "The Gardens," Dropmore, a beautiful private place bordering the Birnam Beeches, in which historic woods a stop was also made for lunch, filled in one of the most delightful and profitable days of the trip.

The first stopping place was the Royal Nurseries of the famous Turners at Slough. Here were found quite a few carnations and hardy garden pinks; the hardy varieties were blooming profusely and would be very useful if they would cover themselves with flowers here as they do there. A few good carnations were noted, among them being Mrs. Howlet Riley, resembling a light colored Daybreak and Mme. Pernet Ducher, a very free flowering kind. Dablias were grown here in quantity and the quality was most excellent. A number of the large and most perfect blooms were hooded over with a contrivance made of wire and cheesecloth, one for each flower; this kept the sun from bleaching out the color. These flowers were for exhibition purposes.

Some seventy plants of roses, different varieties, were grown in 12 to 14-inch pots and nicely staked; these were especially cared for and used as exhibition plants in the spring shows. Each pot would contain when at its best from 100 to 150 blooms. There were many fine roses of different varieties in the nursery, all appearing to bloom much better with them than in the U.S. at the same season. One of the prettiest, of which there were seen quite a number of fine flowers, was the Mrs. John Laing; it is thought very highly of in England. It was here that the Queen paid them the honor of a visit last June to see the Crimson Rambler in flower. This latter rose is regarded as a wonder by all growers and it is predicted that it will be universally planted everywhere when its numerous good qualities are better known.

American methods are not generally used in propagating carnations, the principal plan being layering outside in pots; this appeared to be successful but would hardly justify one to advertise



"THE ELEPHANT," IN BIRNAM BEECHES, OVER 700 YEARS OLD.



LUNCHING AT BIRNAM BEECHES.
THROUGH AMERICAN EYES.

plants by the thousand at "a cent apiece."

"The Gardens," Dropmore, was a very old and interesting place. Here was seen one of the finest specimens of the Cedar of Lebanon in England; it was planted over 100 years ago and was certainly a grand tree. Quite a number of large araucarias beautified the extensive lawns, one of the finest specimens being over 40 feet high, but both this and the Cedar of Lebanon were in such a position that the camera could not be used. Some standard fuchsias were also seen that were said to be 80 years old; they were quite well covered with flowers.

The Birnam Beeches, probably the largest collection in the world, is a most delightful shady grove and has been purchased by the City of London and thrown open to the public to be used as a picnic

ground. Many of the trees contained in the woods are very old but their gnarled and low spreading branches give them a very picturesque appearance. One old specimen has been dubbed the "E'ephant" and is said to be known to be over 700 years old.

After lunch enjoyed under the branches of a spreading beech a start was made for Windsor Castle, the residence of the Queen. The greenhouses, of which there was quite a range, were filled with palms and ferns of various sorts and several contained flowering begonias, gloxinias, and fancy leaved caladiums. There were also orchids, pitcher plants, anthuriums, etc. The architectural appearance of these structures was somewhat of a disappointment as they were not up to date by any means. There were several pits filled with pineapples, some of which



EAST TERRACE OF WINDSOR CASTLE
THROUGH AMERICAN EYES.

were about ready to cut; they are said to be very delicious when ripened under glass, but are difficult to grow.

The kitchen garden was very well kept, it was entirely surrounded and subdivided by five miles of walls about 20 feet high. It cost £44,000 to build these walls and they are covered on both sides with all kinds of fruit trees, apples, pears, peaches, plums, apricots, etc. The climate is not warm enough to grow many of these fruits without protection and to get the best results and provide early fruits there are a number of glass houses built against the south walls. A regular account of all the products is kept and charged up at the market rates, so that the allowance for this department may be regulated. Some 130 hands are kept constantly employed in this department. That the Royal household should need such quantities as are produced here was a matter of wonder until we were informed that it consisted of over 600 members, this number of people setting down to table every day during the Queen's residence at the Castle.

The east terrace garden adjoining the castle is beautifully laid out; it is in a depression surrounded by an earthen parapet some 20 feet high. The inside of this, slopes gracefully down to the flower beds. A number of retinoporas, handsome specimens, are used as centers of the various beds, which are planted with geraniums, echeverias, lobelias, alternantheras and other carpet bedding plants. There is a large fountain in the center of the garden and numerous statues gives the whole more the appearance of an Italian rather than an English masterpiece.

A grand avenue three miles long and 150 feet wide leads straight away from the main entrance to the castle. This is planted on both sides with what are now giant elms making it one of the most beautiful avenues in England. K.

New York.

Trade has been steadily improving, and with good weather there is no doubt of a first-class Easter business. Everybody is feeling hopeful as regards both plant and cut flower prospects. Carnations continue in short supply, a fact somewhat unusual at this season of the year, but perhaps not so difficult to explain as the general condition of the rose crop during the past few weeks. There have been occasions when for a brief time there were more roses of the commoner grades than could be easily handled by the regular store trade, but for the most of the time ever since Lent came in the tendency has been to clean up all good rose stock at fair prices early in the day, and at times there has been difficulty in supplying the demand, with the result that net figures to the growers on stock sent in have been unexpectedly good. The gross receipts of roses during the entire month of March are believed by good judges to have been not much more than one-half what they amounted to last year. Quite a number of rose growers have been getting but a fraction of what would ordinarily be expected from their plants in number of flowers, but what stock has come in has found a ready market at some price, and the net returns have been much more satisfactory because there was no big overstock of unsold flowers to eat up

the averages. Lilies are being withheld from circulation just now, and will not show up in any troublesome number until Easter business opens. It is undoubtedly true that the number of lilies being forced this year is less than it was last season, and on this account better results are looked for.

The plant men are all ready with a stock of plants which for variety, quality and quantity exceeds anything of the kind in the past, and the retailers are showing their confidence in the success of this department of their business by securing such vacant stores as are in their vicinity for the accommodation of their plant trade. "Easter branch" is a familiar sign along the fashionable retail thoroughfares. Palm Sunday, which has always been "visiting day" at the establishments of the Easter plant growers, was about as dismal a rainy day as it possibly could be, and a great many intending visitors were deterred from going, still there was a goodly number at the various prominent establishments, and all seemed willing to excuse the inclemency of Palm Sunday, since by the law of averages the chances of good weather for Easter Sunday were thereby improved.

Importers and dealers in decorative plants, such as palms, azaleas, roses and bulbs, in New York are all in receipt of a circular from Mr. C. Petrick of Ghent in which he makes somewhat caustic comment on the recent address of Mr. Robt. Craig before the Philadelphia Florists' Club on the subject of tariff on plants, and explains at length why he does not agree with Mr. Craig that a duty on imported plants of this description would be beneficial to the plant industry in Amer-

ica. Mr. Petrick's article, which he styles "well meant advice," is certainly well written advice, from the standpoint of an exporter, but there is plenty more that might be said on both sides of the subject, and we are likely soon to hear considerable of it. The advancement and future prosperity of American horticulture is the only basis upon which this discussion should rest.

The third annual invitation ball and floral fete of the North Hudson Florists' Club will be held at Frech's Casino, West Hoboken, on Wednesday evening, April 15. Chas. Menne, John Birnie and Henry Baumann are the committee of arrangements, and it is announced on the posters that "Flowers will be presented to the ladies, as usual." With all these attractions the occasion may safely be pronounced a big success in advance.

At the next meeting of the New York Florists' Club Monday evening, April 13, Mr. Elijah A. Wood of West Newton, Mass., will read a paper on his impressions of floriculture in the west. A large audience is promised.

Hanft Bros. will move from their Broadway store on May 1 to the location formerly occupied by Geo. M. Stumpp on Fifth avenue and 58th street.

Bloomingdale is advertising in the daily papers good roses at 59 cents per dozen, and other flowers and plants at prices proportionally small.

Sweet peas are coming in in fair quantities for the season. Trailing arbutus is also in.

Visiting New York: A. H. Wingett, Lenox, Mass., D. B. Long, Burt Eddy.

Washington.

There has been little or no improvement in trade since last issue; the past week was one of the duller of the Lenten season, but the outlook is brighter at present, and our florists anticipate a large Easter trade. There will be plenty of good stock to supply the demand, no matter how large, the larger the better is what the florists say. The past few warm bright days are just what the florists were wishing for to bring out their *Harrisii* lilies, which they depend upon for the larger and most attractive part of their Easter decoration. They are preparing to decorate their stores and windows in a most attractive style as most of them expect to make an unusual Easter display. Bulbous stuff is in great profusion, and while not in great demand the florists manage to dispose of a quantity each week, and at a fair profit.

The old Corcoran mansion, the home of Senator and Mrs. Brice, was finely decorated recently for a dinner. Large vases of long stemmed roses were put in every available place in the drawing rooms, with palms and ferns for a background. The hallway was set with palms and ferns, adding to the handsome effect of this beautiful entrance. The dining room was also decorated with palms and ferns. The centerpiece was a great heap of American Beauty roses, sprayed with white lilac arranged with careless grace. A broad ribbon of American Beauty shade was intertwined among the flowers, the whole length of the table, with elegant effect. Fronds of *Farleyense* were strewn over the cloth. Gold candelabra filled with lighted tapers, shaded by caps of gold, completed one of the largest dinner decorations of the Lenten season.

Magnolia Halleana is beginning to come in in some of our parks; those in sheltered places are in fall flower.



WHITE AZALEA. BLUE CREPE ABOVE, WHITE CREPE BELOW, BOWS OF WHITE SATIN RIBBON.

A floral piece recently presented to Senator Blackburn was in the form of a huge shield, being a representation of the coat of arms of Kentucky, with the motto, "United we stand, divided we fall." The words encircled two figures clasping hands, represented by doll babies dressed in black silk coats and trousers of Kentucky blue jeans. The shield was made of white carnations and the stars in the blue field of immortelles were worked in chenille. The shield was crowned with a horseshoe of *La France* and *Perle* roses. The whole was supported on a base made of roses and orchids. There were several smaller floral offerings, among which was a large wreath of laurel tied with a bow of purple ribbon and a large bunch of violets. A bunch of twenty-four long-stemmed American Beauties and a large bunch of Bridesmaid roses were also conspicuous.

Many of the most prominent women who are social leaders in Washington have formed themselves into what is known as the "National Flower, Plant and Fruit Guild." The duties of those who have it in charge will be to collect flowers in various ways, one way being to solicit them from society people who give large entertainments to give the flowers after they have been used for decorative purposes to the hospitals and poor, instead of having them taken away by the florists. Potted plants and fruits will be given in the same way. At the Vanderbilt-Marlborough wedding and at the marriage of the daughter of ex-Secre-

tary Whitney, where flowers were used in profusion, the flowers were given (at the suggestion of the ladies of the guild) to the hospitals and poor of New York; the Washington association proposes doing the same. They are confident of success and think much good will be done among the institutions of sickness and misery through their efforts.

REYNOLDS.

Boston.

Easter week starts in with a decided scarcity of carnations in this market. Some there are who profess to believe that the growers are holding back their flowers until Easter, and that the scarcity is more apparent than real, but is not so easy to demonstrate this, and there is every inducement for those having carnations to bring them in at once. With prices ranging from \$3 to \$6 per hundred as they are at present writing it is hard to see where anything is to be gained by withholding stock, and one who does it and gets left will deserve little sympathy. Roses are selling fairly well, violets and bulb stock slowly; *smilax* is very scarce and lilies are being held at stiff figures. Of lilies there are but few seen here besides *longiflorums*. *Candidum* is almost extinct, and Boston growers have a spite against *Harrisii*. Among the choicer flowers seen are quantities of handsome yellow primroses. Some of the improved strains which growers control here are grand. One grower has been offering sweet williams at the market, but they



ARAUCARIA FESTOONED WITH PALE GREEN BABY RIBBON.



BOUGAINVILLEA SANDERIANA

are not a pronounced success. Heath is not as plentiful as in past seasons.

W. H. Spooner showed a bloom of the new hybrid tea rose, "Pink Rover," on the last day of the exhibition. It resembles Malmaison in color and form but has a delicious Jacq fragrance.

The last lecture of the season at Horticultural Hall was by Prof. E. B. Voorhees, of the N. J. Experiment Station, his subject being "Manuring Orchards."

Visitors to Boston: E. O. Orpet, A. P. Meredith and Jos. Clarke, Jr., S. Lancaster; H. Huebner, Groton; Jos. Fuller, Leominster; J. F. Huss, P. J. Donohoe, E. J. Norman, Jas. Paul and Geo. Thompson, Lenox, Mass., and Robt. Patterson, Portsmouth, N. H.

Pittsburg.

The Florists' Club held the regular meeting on Thursday night, March 26, with a very fair number in attendance. Two new members were elected, Geo. Christ, with Bauer & Son, and P. Myers, and one name proposed for action next meeting. The club decided to tender to Mr. Wm. Falconer, the new superintendent of Schenley Park, a reception, extending to him a fraternal welcome on his coming here; a committee consisting of Henry Negley, Samuel McClements and George W. Burke was appointed to make all necessary arrangements and announce the date and time, when it is hoped we will make Mr. Falconer feel at home in his new location. Wm. F. Lauch and Geo. Oesterle exhibited two pots of very fine Harrisii and a large bunch of carnations, over 100, consisting of Portia, Day-break, Scott, Albertini and Fishers, which were admitted to be equal to any heretofore shown and excited universal admiration. After the meeting adjourned

the members enjoyed a social, refreshments being served in our meeting room, each member enjoying himself as best suited him, the majority, however, inclining to a game of cards. The unanimous opinion was that a "social" in our own room was far superior to one where we had to go away from it to have it, as we have heretofore been compelled to do.

The trade has not improved since last week; everything very quiet, but all are busy preparing for the Easter rush, which bids fair to exceed in volume of business that of previous years. Flowers of all kinds will be plenty, with the exception of carnations, and the supply of those will be considerably less than the demand.

Mr. John Bader, treasurer of the club, and one of our prominent florists, has met with a very sad affliction, his wife dying after a short illness of five weeks. Mrs. Bader will be very greatly missed by her many friends, both in the family and the church circles. The very great number of tokens of loving sympathy, evidenced to Mr. Bader and his daughter the esteem in which Mrs. Bader was held, and showed the heartfelt sympathy of his brother florists and many friends to them in their very great bereavement.

Mr. M. C. Dunlevy of Carnegie has suffered very greatly this week. On Monday morning his son Harry went into the greenhouse at about 3 o'clock to look at the thermometer, striking a match for that purpose, an explosion of natural gas resulting, badly burning both him and the man, Paul Bruno, blowing off a great deal of the glass, breaking the ventilator apparatus, and destroying over 7,500 carnation plants. The gas mains are laid in the public road adjoining the houses; they became leaky, and the gas went through the ground, filling the houses, and Mr. Dunlevy not using it was not on

the lookout for any there. He was cutting about 1,500 carnations a day, having completed the two houses and started as a wholesale grower last fall. They were filled with the leading varieties, and he was very successful in their culture. The plants are a total loss, and this coming just before Easter makes it doubly severe. His son was very severely burned about the face and hands; Mr. Bruno not so badly burned. The doctor thinks that neither inhaled the flame and that they will recover. Everyone expresses great regret at his misfortune and hopes for the speedy recovery of those injured. Mr. Dunlevy will surely recover damages from the company owning and operating the gas line. REGIA.

Bougainvillea Sanderiana.

This beautiful flowering plant fully justifies all that was claimed for it when introduced by Sander two years ago. Its dwarf habit, profuseness of bloom and brilliancy of color make it a most welcome addition to the list of Easter flowering plants. The plant illustrated was grown by Julius Roehrs of Carlton Hill, N. J.

St. Louis.

Trade for the past week remained fair; the weather continues warm and spring-like, and the plant shipping trade has commenced to boom. Easter stock is in good shape all along the line, and should the weather keep on warm there will be plenty of it on hand at all the growers'. The flowers that come in now are good and in sufficient quantities to satisfy the buyers. The fact that there will be an increasing demand is proven by several large orders that have been placed already a week ahead.

Easter prices will take effect April 1. Quotations made by the wholesale men are as follows: Roses will be from \$8 to \$10, Beauties \$35 and \$50, carnations \$2 to \$3, valley \$3 and \$4, Harrisii and callas 10 to 12, daffodils 3 to 4, single 50 cents; tulips 2 to 4, violets, single 35 cents, double 75 and \$1; smilax 15 and 18.

The Jordan Floral Co. have commenced cutting from one of their Jacq. houses, and during the week showed some elegant cut blooms in their windows; they expect to cut a large lot for Easter.

On Monday night the bowlers rolled some practice games for their match with the Magnolia Club for next Monday night, April 6, only two balls being used, and some good scores were made. The boys are all hopeful of winning at least three games of the four to be rolled. After the rolling the team was made up as follows: J. J. Beneke, captain; C. A. Kuehn, John W. Kunz, F. C. Weber, Emil Schray and D. Helwig. All members are requested to be present, as well as all florists. The alleys are on the northeast corner 11th and Victor. J. J. B.

Buffalo.

As the writer has been debarred from any more violent exercise for the past seven weeks than looking out of a window he has been able to observe closely the wonderful variety of weather that has visited our city this past two months. Blizzards of snow with very low temperature and sandwiched in once a week with a rainy day has been the order of things. But a change has come, and on Sunday last the sun shone out, soft south winds turned our snow banks into babbling brooks by the gutter side, and everybody is happy, particularly the florist who has wagon loads of flowering plants which he hopes to deliver on Saturday. If any one thing in a florist's existence has a tendency (mind, I only say a tendency) to make a pious florist profane it is to wake up on the Saturday before Easter and find there is 5° of frost in the air. From daylight to 9 a. m. the thermometer is consulted at the rate of forty-seven times to the hour. We have all been through it, and survived, and will have to perhaps again, but let us hope not this year.

I have not been well located of late to observe what Easter stock exists in the different establishments, but from authentic sources I know there is a very large quantity of good Easter stock in town, far more than previous years I feel sure, and the great bulk of it is in fine shape. Many of the stores are early in the week making a regular show. Palmer's large store is full of attractive plants, and Jack roses by the thousands. Hale has already overflowed onto the sidewalk. Rebstock's fine window is very attractive, and Scott's store is full of lilies, azaleas, and the usual seasonable stock. The promise of a cut of 15,000 good carnations from his Corfu houses pleases son Philip. Anderson, Adams and Mepsted & Asmus are all making fine displays. With all this abundance of plants it is encouraging to believe it will be all wanted. Cut flower orders are nearly always delayed till the last day. But already we can tell that the demand for a plant for an Easter gift is going to exceed that of any former year. Church orders and memorial designs, which ten years ago were so much depended on, are now of very secondary importance, but the lack of this part of the business is made up twenty-fold by the general purchase of plants by all classes.



VIEW IN THE STORE OF MR. E. WIENHOEBER, CHICAGO.

I cannot give you a list of the visitors in town of late, for I have missed many, but of the English speaking ones I can swear I have seen within a few weeks Mr. Outram, of Reading, England, and Mr. Mott, of Riverton, and last, but very recently, Mr. Atkins, of Short Hills; for a brand new married man the latter looked remarkably well.

If the editor will grant me space for a few words I wish to say that since I met with my misfortune on the 11th of February I have received many letters of sympathy from kind brother florists, for which I feel very grateful. Although I can only attend to my business yet at long range I intend to be in Cleveland the end of the month if it takes a leg, I mean a crutch.

WM. SCOTT.

Philadelphia.

April the 1st, all the growers are sold out, it has rained all day and everything about the retail city establishments looks lovely but the countenances of the proprietors. Business has not been up to expectations, particularly in the cut flower line. First-class roses go begging, and there is no stability to prices. Brunners are to be had at \$3 per dozen. Laings and Baroness the same, Jacks are 10 to 15 per hundred. All the best teas go for 6 to 8 with the majority at 6. Carnations 1.50 to 2.00, sweet peas 2 to 3, valley 3 to 4, daffys and tulips 3 to 4. There is not much prospect of a rise in price for Easter except perhaps for carnations.

Of the Easter stock, for the most part it looks up to the average, there are not any new things to speak of. Rhododendrons and pot lilacs are more plentiful, hydrangeas are quite scarce and the quality is not up to the mark, Bevis and Anderson had the bulk of the crop. George grows no Easter stock but the hydrangea, but he does this well and has led the van for a long time. Robt. Craig has a lot of hyacinths in pans that should be good sellers, they are certainly pretty.

There seems to be plenty of lilies, plants in 6-inch pots with from 5 to 8 flowers sell for 50 cents each, some growers with selected stock ask 10 cents per flower straight. Small azaleas sold out early, the size that brought \$1 each were very much in demand. Whites were scarce, more of this color should be kept for Easter. Pot roses are in great shape with several growers and make fine Easter plants.

Pennock Bros. were fortunate in having the large store next to theirs vacant, they have it full of choice stock and with their increased show should do a large business.

Growers now take a pride in sending their stock in the best condition; it is all carefully staked with green stakes, tied with green cord, and best of all the pots are scrubbed, all of which is quite an advance and a move in the right direction.

Graham's new store is now open and is one of the coziest places in the city; it is fitted up very tastefully. The greenhouse in the rear gives an opportunity to make a good show with choice plants. The large room on the second floor is arranged for a show room for fancy baskets, etc.; the whole store is a model and quite up to date.

K.

Chicago.

Easter stock has been helped along by several very clear bright days, although the weather has been cold and windy. Shipping trade has been brisk all the week. Prices held up very well up to Friday night, but it was generally thought that second grade flowers would fall greatly on Saturday. Without doubt many unwise growers were holding back, as usual, to meet with the annual shock at the last moment. Really first class stock has not been overplentiful at any time during the week, either in roses or carnations, and the poorer grades are the only things likely to suffer. The first quality roses were quoted at \$8, excepting some select Brides and Bridesmaids at \$10, and extra Testouts at \$12. On



VIEWS IN THE STORE OF MR. E. WIENHOEBER, CHICAGO.

all really good stock there was a tendency to hold to the outside figure quoted.

There was a great deal of bulb stock in, including both forced and outside varieties. R. E. Kennicott, of Carbondale, sent in the first Illinois outdoor stock of the season, including fine single daffodils. Paper white, which has been in a state of innocuous desuetude for a week or two, appeared again. Valley sold out quickly, being greatly in demand. Lilies seemed, on Friday, to be plentiful enough for any calls, most of them going for \$12.50.

A novelty in our market was *Antirrhinum majus*, both white and colored. It was sent in simultaneously by three different growers, Mrs. Rockafellow, W. N. Rudd and M. Tittle. The blooms were large, on fine spikes, the white being especially beautiful; it sells for \$10 a hundred,

A new grower for the Chicago market is Morris Tittle, of Jefferson Park. He is sending in good carnations at the present time.

November 10 to 14 inclusive are the dates selected for the chrysanthemum show of 1896. This is a week later than last year, but by the change the excitement of presidential election week is avoided. The preliminary premium list is being printed and will soon be mailed to members and possible competitors. Extra copies may be had by addressing Mr. W. N. Rudd, Mt. Greenwood, Ill.

At the annual election of the Lincoln Park Commissioners last Wednesday officers were elected as follows: F. H. Winston, Pres.; Philip Henrici, Vice-Pres.; G. W. Weber, Secy.; Martin Becker, Auditor. Mr. Andrew Crawford, who has been president of the board for the

last two years, not only declined to serve another year as president but has resigned as a member.

Mr. Van Zonneveld, Sassenheim, Holland, was a recent visitor.

Rochester, N. Y.

Extensive preparations are being made by our storekeepers for a large increase in Easter trade, and they are stocking up with plants of every description. Flowering stuff in great abundance is to be seen everywhere; azaleas in particular are in very good condition. Pans and pots of hyacinths, tulips, narcissus and valley evidently sell well, for they are exhibited in great numbers in all show windows. Pans of violets, clean and healthy stock, well flowered, are very popular. Large specimen marguerites covered with flowers make a fine show in some of the places between the mass of blooming azaleas or cinerarias. Tall, tree shaped genistas are a specialty in one place and are well grown; their dense rounded heads with the multitude of blossoms form a perfect ball of immense size. Low and compact plants of the same species, so popular for Easter decorations, can be found at every store in all sizes. Lilies are coming on in good shape and will not be so very scarce after all if the moderate and mild sunny weather we are having at present should continue to the end of the week. H. P. roses in pots are better this year than usual, being of extra large size and very bright in color, the foliage large and of a very deep green; Magna Charta, Laing, Brunner, Luizet, Jacks and Mabel Morrison are the only varieties grown around here for this purpose. In addition to the flowering plants, ferns, dracaenas of various kinds, ficus, araucarias, aspidistra, aralias, palms of every description and in all sizes are leading features in the store exhibitions. Indications point to an increase in the bulk of business, and all our florists are in good spirits, as orders for plants and cut flowers have come in earlier and more liberally than in former years. The cut flower trade at Easter for the last few years has declined to some extent, as prices were rather high; this year with moderate, though somewhat advanced prices, expectations are entertained for a more lively demand in this line, but the profits may not be as large as they should be.

In the wholesale market there was very little waste in the past week, everything being taken readily as soon as coming in, and at very fair prices. Carnations are rather short in supply and bring from \$2 to \$4; teas from 10 to 15 for extras; Beauties 30 to 40. Violets still bring 75 cents to \$1, being rather scarce, but we expect this week to have first crops of the cold frames stock coming in, and they probably will fetch good prices until after Easter. Smilax is not plentiful, and brings 20 cents.

The retail trade has been very good for the past week, with a marked scarcity in carnations, which retail at 40 to 60 cents per dozen, according to quality; tulips and narcissus are not so plentiful as formerly, and are readily disposed of. Valley is sold at 75 cents to \$1 per dozen and is excellent in quality. Violets 1.25 to 1.50 a hundred, and teas from 1.50 to 3 a dozen. No attempt is made by anyone to cut prices, for there is no overstock on hand in any of the establishments.

Vick & Hill have opened a store on Main street, and from Thursday to Saturday, the announced opening days, the place was crowded constantly with customers from morning to night, anxious

to see the grand exhibition of flowering plants and cut flowers of every description. The store is located on our very best business street, and in the most frequented part of it, so there is no doubt that the firm will be prospering; they have the best wishes from their brother florists and friends for a continued success in the new venture. The decorations in the newly opened store were both elaborate and tasty; ceiling, windows and the sides were handsomely festooned with smilax and asparagus; the large icebox with plate glass front was filled to its utmost capacity with fancy roses, carnations and valley arranged with good taste. The store windows and one side of the interior were banked with flowering plants of every description, azaleas being prominent. No place was left unoccupied and on the counters and stands vases of immense size were filled with monstrous bunches of the finest long stemmed roses, high quality carnations and narcissus, interspersed with smaller vases of valley, violets, freesia, etc. It must be said that their opening was a very flowery affair, and visitors completely filled all the passage ways for the most part of the opening days, so that the proprietors and clerks had a very busy time administering to the wants of the throng of customers. J. B. K.

San Francisco.

This past week's trade was pretty well up to the average with most of the florists, although there are a few who cannot say as much. As a general rule the quality of stuff coming in is extra good. This is especially true of Beauties. Testouts are of pretty good quality and seem to sell very well. Some Belle Siebrecht are to be seen, and take very well indeed. It seems as though this rose has come to stay as a commercial variety, as it is all that can be desired both as to color and length of stem.

As to violets they have had their run, and the quantity coming in is shortening up gradually. Some very fine white and yellow carnations are noticed. These come from John Carbone's place at Berkeley. Harrisii are quite plentiful, and there is not much probability of there being a scarcity of them at Easter. Some outside lily of the valley was seen last week, and it compares very favorably with the inside stuff.

Lilac is to be seen everywhere now. The street fakirs just through the corners with immense bunches which they offer at 5 and 10 cents.

Mr. M. Miller, who had the store at 15 Geary street for several years, has sold out and intends to take up gardening again.

The firm of Antonnini & Co., at 31 Geary street, has dissolved partnership. Mr. Shannahan has bought out the interests of all the other parties with the exception of Mr. Antonnini. The business will be run at the same place under the firm name of Shannahan & Antonnini.

Mr. A. Hilbert has opened up a store at 15 Geary street lately vacated by Mr. M. Miller. This was Mr. Hilbert's first store in San Francisco, and he hopes to regain his old trade again.

Mr. Matt Leonard, who has been in the seed department of the Sunset Seed and Plant Company for the last four years, has resigned and as yet is undecided as to his future movements.

Mr. Frank Pelicano and Mr. Angelo Rossi, his young floral artist, spent last Sunday in Menlo Park.

The San Mateo County Floral Society has issued their program of prizes for the

rose show. Prizes will be offered for the best displays of roses, sweet peas, ferns, carnations and decorative plants.

The thirteenth semi-annual rose show of the California State Floral Society will be held in Maple and Marble Hall of the Palace Hotel April 1, 2 and 3. The society is making every effort to make this one memorable as an educator. They have issued complimentary tickets to all the orphan asylums in the city and other charitable institutions with the idea of getting the young people interested in flowers.

Last week, at Maple Hall in the Palace Hotel, the California State Floral Society gave a very interesting exhibition. Mr. Carl Purdy of Ukiah exhibited over twenty varieties of native bulbs and was awarded a certificate for his exhibit. The new "Golden Gate" violet was also shown and was the great object of interest to the trade. It resembles the California somewhat, but it has a very dark pleasing color, combined with a great size and length of stem that will make it a valuable commercial variety. Mr. de Roche, who originated the California violet, also had on exhibition two more new ones—one called the Duchess of Marlborough and the other Princess of Vanosa, both of which he imported from Italy. A paper on iris was read by Mrs. L. Walker. Mrs. Geo. C. Ross received first prize for violets and Mrs. Lyellan of San Leandro received first for imported bulbs. The show was a very successful and interesting one.

The following cities have begun arrangements for floral carnivals since my last viz: Los Angeles, Santa Barbara, Healdsburg and San Jose. There will be scarcely a large city in California this spring that will not have a carnival.

The azalea show given at F. Ludemann's nursery, Baker and Lombard streets, on the 13th, 14th and 15th, was a great success. It was held under the auspices of the California State Floral Society and its object was to awaken more interest in this beautiful plant, which can be flowered outside in March or April. Mr. Ludemann had several thousand plants, including the best varieties for forcing and outdoor planting. The azalea houses were appropriately decorated with palms and evergreens and the gorgeous display of bloom that met the eye of the visitor was particularly striking, and called forth much comment on the artistic manner in which they were arranged. Immense throngs of visitors filled the greenhouses as long as the show lasted. Many of the trade also attended to get better acquainted with the best sorts for forcing. Much credit is due Mr. Ludemann for his efforts to awaken the interest in this handsome plant which we so seldom see in the florists' stores here. The society also extends its thanks to the gentleman for his kindness in holding the exhibition.

METEOR.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advts. not admitted under this head.

SITUATION WANTED—By a first-class rose grower and propagator; single; 8 years' experience. Good references. J. L. care American Florist.

SITUATION WANTED—By competent florist and gardener; single; 8 years' experience. Private place preferred. Good references. Address M. L. care American Florist.

SITUATION WANTED—In store, thoroughly reliable. First-class designer and decorator. Many years' experience. Address FLOUNT, 1026 Forest Ave., E. Walnut Hills, Cincinnati, O.

SITUATION WANTED—As foreman, and grower of roses, carnations, violets, palms and all kinds of florists' stock. Married. References. Address GEO. MORTON, Box 379, Brockville, Ont., Canada.

SITUATION WANTED—By an experienced grower of cut flowers and general stock, as working foreman; married; age 35. For particulars and references address E. RUDERSDORF, Little Silver, N. J.

SITUATION WANTED—By thorough florist and gardener, as foreman or assistant in good commercial place; lifetime experience; married; best of references. PRACTICAL, care American Florist.

SITUATION WANTED—As working foreman; first-class grower of roses, carnations, violets, mums, palms ferns and general greenhouse stock. First-class references; 24 years' experience; single. FOREMAN, 1019 Vine St., Philadelphia, Pa.

SITUATION WANTED—By a thoroughly competent florist of 12 years' experience in cut flower growing. Expert rose grower; will take charge of place; steady, sober and single. State salary. Address L. H. WORLWORTH, 62 Delaware Ave., Buffalo, N. Y.

SITUATION WANTED—A young Dutchman, bulb-grower's son, wishes to be placed in a nursery. Board and lodging and small salary expected. Advertiser has been working in a nursery in Germany during a year. Address J. G. KAT, Hillegom, Holland.

SITUATION WANTED—As foreman or assistant on commercial or private place experienced grower of cut flowers, decorative or bedding plants; age 30, sober, good references. Address G. M. Eastern Office, American Florist, 67 Bromfield St., Boston.

SITUATION WANTED—An experienced practical gardener and florist would like to take charge of a commercial or private place; must be in or near Chicago; can furnish best of references. Address E. HAY, care Mr. Nicolaus, 738 119th St., West Pullman, Chicago.

WANTED—General greenhouse stock of all kinds. SMITH VILLA NURSERY AND GREENHOUSE CO., Sioux City, Iowa.

WANTED—Would like correspondence with capable man for stocking and care of greenhouses. E. E. BOYNTON, Sycamore, Ill.

WANTED—To lease for a term of years greenhouses with some land attached; must be in or near Chicago. Address CLOUSTON, care Am. Florist.

WANTED—A man who understands how to raise vegetables for home use, on a large farm. Address ELK VALLEY FARMING CO., Larimore, N. Dak.

WANTED—To lease an established florist business in a live city, doing a good trade, consisting of 3,000 to 4,000 feet of glass. Address A. B., care H. Waddington, Brantford, Ont.

WANTED—A good rose grower to take charge of section of greenhouses under foreman; single man preferred. Address REINBERG BROS., 51 Wabash Ave., Chicago.

WANTED—A good, steady florist German or Scandinavian, for office and greenhouse work, one that is accustomed to retail business. Address CHAS. HELD, 320 N. Campbell Ave., Chicago.

WANTED—Information of the present whereabouts of Charles Brady; when last heard from he was working in Orange, N. J., in a private place. Send information to PATRICK O'MARA, 35 & 37 Cortlandt St., New York.

FOR SALE—A florist's establishment. Address E. KIRKPATRICK, box 155, Slag Sing, N. Y.

FOR SALE—A real opportunity, on account of age, one of the very best florist stores of the north side of Chicago. Address NORTH, care American Florist.

TO LEASE—For a term of years to a reliable florist or nurseryman, 18 lots (18x20 feet) in 25th ward, Brooklyn, New York. Address OWNER, 1054 Park Place, Brooklyn, N. Y.

FOR RENT—Large greenhouse plant within city limits; fine stock ready for spring trade, hot water heating land attached, good houses sheds and barn. Address S. P., care American Florist.

FOR SALE—Five greenhouses, each 90 feet long; shed 12x50 with two living rooms, hot water; town 30,000 people, situated 13 miles from San Francisco; 30 trains daily; finest climate known. Address A. B., care American Florist.

FOR RENT—Eleven greenhouses all heated by low pressure steam; this is a good chance for a man to go in business with a small capital; write, information free; location good. Address HENRY MOORE McLemore Ave., Memphis, Tenn.

FOR SALE—A florist business—5 houses, 5,000 square feet of glass, fine stock ready for spring trade, hot water heating, 2 sheds, dwelling, etc.; all in good condition rare chance for the right man; to be sold on account of ill-health. For particulars: E. TIEDEMANN, O'Fallon, Ill.

FOR SALE—A good chance. The stock in our greenhouses at a low price, and will rent the houses at a low figure. The only greenhouses in town of 5,000. For a man with little money this is a good chance. Write quick. STAFFORD FLORAL CO., Stafford Springs, Conn.

FOR SALE.

BROAD STREET FLORAL EMPORIUM. Broad and South Sts., Philadelphia, including stock of Plants, Greenhouses, Fixtures and Lease. Property 60 feet front on Broad St., 60 feet deep, large show house in front, three small houses in rear. Present owner is retiring from business. Apply

A. W. BOERNER, above address.

MARECHAL NIEL

A splendid lot of this fine rose.

	PRICES
2 1-2 inch Pots, 4 to 6 inches.	\$3 per 100
3 1-2 inch Pots, 6 to 12 inches	- 6 per 100
4-inch Pots, 12 to 18 inches	- 9 per 100
5-inch Pots, 15 to 20 inches	- 10 per 100
6-inch Pots, 20 to 24 inches	- 12 per 100
7-inch Pots, 24 to 30 inches	- 18 per 100

Also 100,000 plants of Hybrid Perpetuals in 2½-inch pots. Write for prices and varieties.

W. S. Little & Co.,

ROCHESTER - - NEW YORK

Mention American Florist.

NOW is a good time to secure a strong healthy stock of the

CELEBRATED NEW ROSE

MRS. PIERPONT MORGAN

which has unmistakably grown in popularity as the season advanced.

Prices for strong plants ready for immediate delivery are as follows:

From 2-inch pots.	per 100	\$125.00
" " "	per 500	65.00
" " "	per 1000	35.00
" " "	per 50	8.00
" " "	per 12	2.25
From 3-inch pots.	per 100	18.00
" " "	per 50	10.00
" " "	per 12	2.50

Money Order Office, Station H, Phila. **EDWIN LONSDALE,**
Wyndmoor, Chestnut Hill, Phila.

ROSES.

K. A. Victoria, per 100, \$4.00
Albany, Cornelia Cook, Hermosa, C. Riza du Parc, Martha du Bourg, Meteor, Triumph de Pernet Pere, Bride, Bridesmaid, White La France, Striped La France, Gontier, La Princess Vera, Gen. Tartas, Safrano, Souper, Henry Stanley, Mrs. Degraw, Devonensis, M. Guillot, Crown Princess Victoria, \$3 per 100; \$27 per 1000.
Chas. Rovolli, Queen's Scarlet, Snowflake, Caroline Goodrich, Mary Washington, \$2.50 per 100.

*Our selection from the above, in good assortment, per 1000 \$25.00.

H P. and MOSS, suitable for 4 and 5-inch pots, dormant, per 100, \$6.00.

H. P., 2½-inch pots, dormant, strong, in good assortment, per 100, \$4.00.

THOS. A. McBETH, Springfield, O.

ROSES. NOW READY.

First-Class Stock, 2½-inch pots.

	Per 100	Per 1000
BEAUTIES.....	\$4.50	\$40.00
PERLES.....	3.50	30.00
METEORS.....	3.00	25.00
BRIDES.....	3.00	25.00
BRIDESMAIDS.....	3.00	25.00
WOOTTONS.....	3.00	25.00

A. G. PRINCE & CO.,

41 Wabash Ave., CHICAGO.

ROOTED CUTTINGS ALTERNANTHERAS.

P. MAJOR and A. NANA,

75 cts. per 100; \$5.00 per 1000. Fine stock, ready April 1st.

C. K. HOFFMEYER, Carnegie, Pa.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

REINBERG BROS.,

Offer the Following Stock for Spring Planting:

Roses in 2 1-2 inch pots.

	Per 100	Per 1000
AM. BEAUTIES.....	\$5.00	\$40.00
C. TESTOUT.....	4.00	35.00
KAISERIN VICTORIA.....	4.00	35.00
LA FRANCE.....	3.00	25.00
BELLE SIEBRECHT.....	6.00	50.00
BRIDESMAID.....	3.00	25.00
BRIDES.....	3.00	25.00
MRS. PIERPONT MORGAN....	5.00	
METEORS.....	3.00	25.00

Orders for less than 50 of any one variety not accepted. **READY FOR SHIPMENT.**

Send orders to **51 Wabash Ave., CHICAGO, ILL.**

Rose Plants and Rooted Cuttings

Plants in 2 1-2 in. Pots.

	Per 100
Am. Beauty.....	\$5.00
Mrs. J. Pierpont Morgan.....	6.00
Brides.....	3.00
Bridesmaids.....	3.00
Meteors.....	3.00

Our 'Mum cuttings are the best commercial varieties. No order for less than 100 filled at these prices or 50 of one variety. Our new 'mum Kate B. Washburn, earliest large white, 2-inch pots 10 cts.

BASSETT & WASHBURN, Hinsdale, Ill.

ROSES

BEAUTIES, MERMETS, CUSINS, TESTOUTS, NIPHETOS, PERLES, BRIDES, BRIDESMAIDS, METEOR, HOSTE, LA FRANCE, WOOTTON, WATTEVILLES, AUG. VICTORIA. Rooted Cuttings. Cash with order. Owing to number booked, they will be executed in rotation to assure prompt delivery. Order early.

Address for quotations, **VILLA LORRAINE ROSERIES, MADISON, NEW JERSEY.**

THE SUNNYWOODS GREENHOUSES

HAVE THE

PARENT STOCK

OF THE ROSE BRIDESMAID.

My young plants from it are very fine. So also are my

METEORS.

Please write, stating just how many you want, and I will quote you a bargain.

FRANK L. MOORE, Chatham, N. J.

Mr. Frank L. Moore.

Dear Sir: I received roses this a. m. They are VERY FINE—finest plants I ever bought. When in want of more stock will buy from you. Thanks for promptness. Yours very truly.

W. J. MILLER, Pontiac, Ill.

SEA BRIGHT, N. J., March 25 1896.

Mr. Frank L. Moore.
Dear Sir:—Your favor received. The Meteor plants received from you are very satisfactory in every respect. I thank you for your careful attention to the order. Yours very truly.

FRANK McMAHON.

Home of the Queen of Roses.

BELLE SIEBRECHT.

READY APRIL 1st.

Send in your orders early; the demand is great. The finest pink ROSE ever introduced.

2-inch pots. . . . \$12.00 per 100

2-inch pots. . . . 55.00 per 500

2-inch pots. . . . 100.00 per 1000

3-inch pots. . . . 18.00 per 100

NOTICE:—All orders filled in strict rotation.

SIEBRECHT & WADLEY,

Rose Hill Nurseries, NEW ROCHELLE, N. Y.

Mention American Florist.

Roses.

BRIDES, BRIDESMAIDS and MERMETS, \$3.50 per 100; \$30.00 per 1000.

AMERICAN BEAUTIES, \$5.00 per 100; \$40.00 per 1000. Strong, healthy stock. 25 at 100, and 250 at 1000 rates. Cash with order.

R. F. TESSON,

West Forest Park,

ST. LOUIS, MO.

Rooted Carnation Cuttings,

	Per 100	Per 1000
WM. SCOTT.....	\$1.25	\$10.00
ALBERTINI.....	1.25	10.00
STORM KING.....	3.00	25.00
LIZZIE GILBERT.....	3.00	25.00
TIDAL WAVE.....	1.00	8.00
DAYBREAK.....	1.00	8.00
PORTIA.....	1.00	8.00
NANCY HANKS.....	1.00	8.00
LIZZIE MCGOWAN.....	1.00	8.00
UNCLE JOHN.....	1.00	8.00
SILVER SPRAY.....	1.00	8.00

Free of rust. Ready for immediate shipment. Orders for less than 100 of any one variety not accepted.

Send orders to **51 Wabash Ave., CHICAGO, ILL.**

Rose Plants and Rooted Cuttings

Cuttings Strong and Well Rooted.

	Per 100
Am. Beauty.....	2½c
Brides.....	1½c
Bridesmaids.....	1½c
Meteors.....	1½c
Mums.....	1½c

Our 'Mum cuttings are the best commercial varieties. No order for less than 100 filled at these prices or 50 of one variety. Our new 'mum Kate B. Washburn, earliest large white, 2-inch pots 10 cts.

BASSETT & WASHBURN, Hinsdale, Ill.

ROSES ROSES

Forcing Roses, Everblooming Roses, New Roses, Hybrid Roses, Polyantha Roses, Climbing Roses, Noisette Roses, in fact all kinds of Roses. Chrysanthemums, Carnations, Geraniums, Fuchsias, Cannas, Coleus, Hibiscus, Begonias in fact a general line of all kinds of plants for Florists' use. Our trade list now ready. Send for it.

WE ARE THE LARGEST ROSE GROWERS IN THE WORLD.

The Good & Reese Co.

CHAMPION CITY GREENHOUSES, Box 2, **SPRINGFIELD, OHIO.**

Mention American Florist.

Rogers Park Floral Co.

GOOD FIRST-CLASS STOCK.

	In 2½-inch pots.	per 100	per 1000
Am. Beauties.....	\$5.00	\$40.00	
C. Testout.....	6.00	50.00	
Kaiserin Victoria.....	4.00	35.00	
La France.....	4.00	35.00	
Belle Siebrecht.....	6.00	50.00	
Bridesmaids.....	3.00	25.00	
Brides.....	3.00	25.00	
Perles.....	4.00	35.00	
Meteors.....	3.00	25.00	

Orders for less than 100 not accepted. Ready for shipment now.

Send Orders to 41 Wabash Ave., Chicago.

A FINE LOT OF

Meteors, American Beauties and Perles,

Now ready. In 2-inch pots. Write for sample and prices to

GEO. A. KUHL, Pekin, Ill.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.
Subscriptions accepted only from those
in the trade.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
wares pertaining to those lines ONLY. Please to
remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to se-
cure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

In the adv. of T. W. Wood & Sons on
page 956 of last issue the size of tuberose
bulbs should read "3 to 4 inches in cir-
cumference" instead of "2 to 4 inches."

THE CALIFORNIA GARDEN is the title
of a new monthly magazine published at
San Jose, Cal. Bourguignon & Bourns
are the publishers, and Imogene E.
Johnson of Los Gatos is editor.

A COPY of the proceedings of the Impe-
rial Russian Horticultural Society for
1895 has reached us. It is neatly printed,
in the Russian language, and no doubt
contains much of interest to Russian hor-
ticulturists.

MR. WM. FALCONER arrived in Pitts-
burg April 1 and is now installed as
superintendent of Schenley Park, that
city. The change does not affect his re-
lation to the publication GARDENING, of
which he remains the editor.

SOME FINE CINERARIA blooms, measur-
ing from 3 to 4 inches across, were re-
cently received by us from John Smith,
Cleveland, O. In addition to size their
color was very good, giving evidence of a
superior strain. Mr. Smith had a large
batch of these plants, which would come
in well for Easter.

WE ARE most pleased to be able to say
that President Scott is sufficiently recov-
ered from his injury and consequent illness
to be able to write. In another column
will be found a Buffalo letter from his pen
and he hopes to be able to resume his
weekly seasonable hints soon. He will
ask Secretary Stewart to call the meeting
of the Executive Committee of the S. A. F.
for the last week of this month, believing
that he will then be able to attend. He
says: "On fine days I shall soon begin
to get out on the side walk and practice
walking."

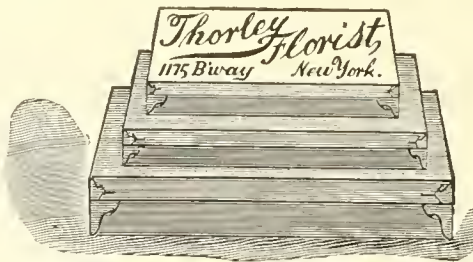
WISCONSIN FLOWER EXCHANGE,
CUT FLOWERS,
Palms, Ferns and Growers' Stock.

FLORAL ARRANGEMENTS, STORAGE
AND COMMISSION.
Box 87. MILWAUKEE, WIS.

MILLANG & WINES,
WHOLESALE FLORISTS,

501 Sixth Avenue,
CORNER 30TH ST., NEW YORK.
Consignments Solicited.

Please mention the American Flo-
rist every time you write any of the
advertisers on this page.



The boxes as they appear when set up for use.

We make them in a sufficient number of sizes, including for violets, to meet all necessary requirements.

NEW YORK SALESROOM:
132 & 134 Franklin Street.

THE NATIONAL FOLDING BOX & PAPER CO.,

315--325 Congress Ave., NEW HAVEN, CONN.

COMPLETE LINE OF SUPPLIES
WIRE WORK
WE MAKE IT
IMPORTERS OF
BULBS
PHONE 1270
BOX 75
ALWAYS ON HAND
FINE STOCK
CUT FLOWERS
ELLIS & POLLYWORTH
MILWAUKEE WIS.

W. ELLISON,
WHOLESALE
Cut Flowers and Florists' Supplies
WIRE DESIGNS.
1402 PINE STREET.
St. Louis, Mo.

C. A. KUEHN,
(Successor to ELLISON & KUEHN.)
Wholesale Florist,
1122 PINE STREET,
ST. LOUIS, MO.
A complete line of Wire Designs.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

The Boston Flower Market
is prepared to purchase, on order, and
ship Trade orders for Cut Flowers at
prices ruling in the market on day of
sale. TERMS STRICTLY CASH.
Address WM. J. KENNEDY, Mgr.,
Flower Market, Park St., BOSTON, MASS.
Long Distance Telephone "Haymarket 438."

DAN'L B. LONG,
FLOWERS AT WHOLESALE.
Strictly Commission Business.
SUPPLIES, ETC.
LISTS FREE. BUFFALO, N. Y.

A. & F. RÖLKER,
Down-town Wholesale Florists,
106 & 108 Liberty Street (Basement),
NEW YORK.

PLEASE mention the AMERICAN FLORIST
every time you write to an advertiser.

"The National"

Folding Flower Boxes are the best
and most convenient ever put upon
the market. They are made from
board, manufactured especially for
these goods, and made so as to resist
moisture, thereby keeping the flow-
ers fresh, and the box holding its
shape.

**THE NEW YORK
CUT FLOWER CO.,**

119 and 121 W. 23rd St., and
112 and 114 W. 24th Street,

IS NOW
OPEN FOR BUSINESS.
The Largest Dealers in
CUT FLOWERS
IN THE WORLD.

Handling flowers of all kinds in quantity
we are in a position to fill shipping orders
promptly. We shall give careful attention
to this branch of the business, and solicit
your patronage.

**WHOLESALE
FLORISTS**
JOEBERS IN
FLORISTS'
SUPPLIES,
FLORISTS'
VASES.

METS,
BRIDES,
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.
84 Hawley Street,
BOSTON, MASS.
HORTICULTURAL AUCTIONEERS.
Always mention American Florist.

WELCH BROS.,
Wholesale Florists,

NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.

Asparagus Plumosus Nanus.

Cut Strings, 8 to 10 feet long,

50 CENTS.

W. H. ELLIOTT, Brighton, Mass.
SAMUEL S. PENNOCK,
Wholesale Florist

1612 & 1614 BARKER STREET,
Ret. Market & Chestnut, PHILADELPHIA, PA.

The Seed Trade.

AMERICAN SEED TRADE ASSOCIATION.

S. E. BRIGGS, Pres.; T. W. WOOD, 1st Vice-Pres.; ALEX. RODGERS, 2nd Vice-Pres.; A. L. DON, 114 Chambers St., New York, Sec'y and Treas. The fourteenth annual meeting will be held at Niagara Falls, N. Y., June 9 to 11, 1896.

VISITED NEW YORK: W. H. Maule, S. M. Pease, S. F. Millard.

APRIL TRADE in the east starts in strong and all look for good business.

MR. NICHOLAS HALLOCK of Queens was appointed member of Advisory Board of New York State Experimental Station at Geneva by Governor Morton on March 30.

THE SEEDGROWERS around Santa Clara and Menlo Park, Cal., are jubilant over the bountiful rains which we had last week. The onions with but few exceptions, where the water laid too long on the ground, are looking excellent, and so far seem to be clear of the blight. Sweet peas in some places do not seem to be looking so well, but hopes are entertained that the last rains will bring them round all right. The lettuce and celery crops seems to be doing well, also turnips, but the latter are not clear of that destructive fly which generally infests them a little later on. METEOR.

Seed Contract Awarded.

WASHINGTON, March 31.—Secretary Morton has let the contract for the 10,125,000 packages of vegetable seeds to be distributed to the public under the recent act of Congress to D. Landreth & Sons of Philadelphia. The price fixed is \$70,000, the seeds to be delivered subject to germinative test, under a very carefully drawn contract, free of cost at the Department in Washington ready for mailing.

The contract for a million packets of flower seeds was let to L. L. May & Co. of St. Paul, Minn., at one half cent per packet.

Under this new method of buying seed and compelling the sellers to put their own firm names upon the packets it is believed by the Secretary that a better quality of seeds will have been secured.—N. Y. Commercial Advertiser, March 31.

Catalogues Received.

Letellier & Son, Caen, Calvados, France, new strawberry; A. Blanc & Co., Philadelphia, plant novelties; C. E. Allen, Brattleboro, Vt., seeds and plants; Kissena Nurseries, Flushing, N. Y., nursery stock; Grainger Bros., Toronto, Ont., seeds and plants; Edmund Mauthner, Budapest, Hungary, seeds and plants; Louis Vieweg, Quedlinburg, Germany, seeds and plants; H. Cannell & Sons, Swanley, England, seeds and plants; J. G. Harrison & Sons, Berlin, Md., fruit trees and plants; J. Schilpzind & Sons, Hillegom, Holland, bulbous flower roots; Vilmorin Andrieux & Co., Paris, France, seeds of trees, shrubs and greenhouse plants.

Worcester, Mass.

The condition of trade continues good, and we have had practically no difficulty in disposing of all the stock coming in at remunerative prices. Carnations are in rather short supply, especially firsts and extras, caused partially by the dullness of the weather and crops being off; violets are also rather scarce and not as good as we have been getting them; they are retailing for \$1. Perhaps roses are the only flowers that approach an oversupply, but no doubt we can handle them at good prices if the weather is only favorable. Von Sions are selling readily this winter, but tulips go a trifle slower, though the quality has improved immensely; we are getting good doubles

VAN ZANTEN & CO.

HILLEGOM, near Haarlem, HOLLAND,

Headquarters for High-grade Dutch Bulbs.
Finest and Largest Stock of best Forcing
Bulbs. Prices very low for First Quality.

Ask for Wholesale Price List to

MR. S. ASCHER, 16 and 18 Exchange Place, NEW YORK.

WHOLESALE ORDERS FOR DUTCH BULBS

BOOKED FOR THE

General Bulb Company,

Vogelenzang (Holland), by

AUG. RHOTERT, Sole Agent, 26 Barclay Street, N. Y.

PLEASE APPLY FOR CATALOGUE AND TERMS.

now. Dutch hyacinths have gone very slowly, while the miniatures in pans and cut are selling easily at \$1 to \$1.50 per dozen.

Lange has a nice crop of antirrhinum that sold slowly at first, but now that people are acquainted with its keeping qualities it is getting more popular. The sales of white lilac are also improving. Harrisii are selling better than ever, and valley fairly well. A. H. L.

Toronto.

The weather for the past few days has been fine, warm and springlike and great banks of snow that looked as if they would be with us until the middle of June have very nearly vanished. If the fine weather will only stay until after Easter the business done at that time will likely beat the record. Already I hear murmurings that there is likely to be an insufficiency of cut flowers, although the supply will without doubt be much larger than in former years.

Carnation Meteor is according to Mr. Tidy a first-rate thing and it sells well.

Dunlop is getting everything in readiness to put up two houses as soon as the frost goes out of the ground. E.

Louisville, Ky.

The Kentucky Society of Florists held its annual spring exhibition March 26 to 28 and it was a great success. All of the members took hold of the work with a will, particularly Mr. Jos. Coenen, who is one of the hardest workers in our society.

The wife of Wm. Walker, the florist, died March 19. Nearly all the florists of the city attended the funeral in a body, and there was a large number of floral designs sent by the florists. S. J. T.

Lancaster, Pa.

Mr. B. F. Barr has met with good success in growing carnations this season; his plants are looking well, healthy and vigorous and the daily yield is highly satisfactory. Three years ago Mr. Barr started in business with about 20,000 feet of glass, the whole being almost entirely devoted to carnations. With

SEEDS ... FOR THE ...

Vegetable and Flower Seeds. All the newest and best varieties—quality unsurpassed, Illustrated Catalogue FREE. WEEBER & DON, Seed Merchants and Growers, 114 Chambers St., New York City.

TUBEROSE BULBS.

Selected No. 2, from 3 to 4 inches in circumference. First-class blooming bulbs. Price, only \$3.50 per 1000, for quick orders.

T. W. WOOD & SONS, SEEDSMEN,
RICHMOND, VA.
Mention this paper.

the acquisition of the adjacent Bitner houses and the building of an additional house last spring Mr. Barr's plant covers now over 70,000 feet, and his stock embraces many excellent varieties of roses as well as carnations. HOMO.

Greenhouse Building.

Philadelphia, Pa., Lemuel Ball, palm house, 137x98.

Bristol, R. I., R. H. Dunbar, one commercial house, 150x35; H. M. Darling, one commercial house.

Hartford, Conn., F. W. Richards, three commercial houses.

New York, Woodland Cemetery Co., one greenhouse.

Great Barrington, Mass., J. A. Raifstanger, one commercial house, 25x100.

Doylestown, Pa., Nelson Suedecker, two commercial houses.

Bauneg Beg, Maine, J. H. Hammond, one commercial house.

New Bedford, Mass., Henrietta Burt, one greenhouse, 16x62.

Wilmington, Del., Chas. E. Sparks, range of commercial houses.

Barre, Vt., F. M. Clay, one commercial house.

Malden, Mass., J. J. McCormack, one commercial house.

Sweet Peas.

What is the earliest date sweet peas can be had in bloom in spring in any part of the U. S? O. O.



WHY DO YOU HESITATE?

Money will not Grow in your Pocket. The following items will, if planted now.

	Trade	pkt.	Oz.
ASTERS Branching White.....	.25		\$2.00
“ Victoria, separate colors.....	.50		3.50
“ “ mixed colors.....	.50		3.00
“ Truffaut's Perfection, separate colors.....	.25		2.00
“ “ “ mixed colors.....	.25		1.25
“ Comet, mixed.....	.25		2.00
Carnation Marguerite, mixed.....	.25		1.25
Centaurea Gymnocarpa.....	.15		.40
Cobaea Scandens.....	.15		.35
Cosmos, mixed.....	.15		.40
Mignonette Machet.....	.10		.50
Nasturtium, Tall mixed.....		per lb.	60c.
“ Dwarf mixed.....		per lb.	80c.
Phlox Drummondii grandiflora, mixed.....	.15		.50
Primula Fimbriata, choice mixed.....	1.00		
Ricinus Zanzibarensis, mixed.....	.10		.15
Smilax.....	.15		.40
Stock Boston Market, white.....	.50		4.00
Thunbergia, mixed.....	.10		.30

WM. ELLIOTT & SONS, 54 and 56 Dey St., NEW YORK.

N. DAMES,

OF THE FIRM

Van der Horst & Dames,

(Formerly G. VAN DER HORST & CO.)

BULB GROWERS,

Heemstede, Lisse, Holland,

is on his round trip in America. To save time, we beg to address all letters up to April 20, care of Knauth, Nachod & Kuhne, 13 William St., New York. Our motto is "Fine stuff makes cheap prices." Our dealings in America is increasing every year. Write at once for quotations. Yours truly, **N. DAMES,**
OF VAN DER HORST & DAMES.

VAN ZANTEN BROTHERS,

Hillegom, Holland.

Extra quality of HIGH GRADE FORCING BULBS AT LOW PRICES. Special growers of HYACINTHS, TULIPS, NARCISSUS, Crocus, Lilies, Scillas, Gladiolus, IRIS, Anemones, Ranunculus, SPIRÆAS, Lily of the Valley, etc., etc. The largest collection of sundry bulbs and flower roots. Wholesale Catalogue upon application.

NORTHROP, BRASLAN, GOODWIN CO.

Being **GROWERS** we are in a position to supply **Seeds of First-Class Quality** and to make **specialty low prices.** A trial will convince those who have not yet found this out.

NORTHROP, BRASLAN, GOODWIN CO.

20 to 28 Hennepin Ave., MINNEAPOLIS, MINN.

55, 57 & 59 N. Jefferson St., CHICAGO.

Try JACK WEZELENBURG'S

HYACINTHS, TULIPS, CROCUS, DAFFODILS, AND OTHER BULBS.

Address all correspondence until May 1st, care J. W. HAMPTON, Jr. & CO.,

41 BROADWAY, NEW YORK.

WE ARE HEADQUARTERS ON
**BULBS FOR FORCING,
FLOWER SEEDS FOR FLORISTS
ENGLISH MUSHROOM SPAWN.**

Special prices on application.

**JOHN GARDINER & CO., Seedsmen,
631 Market St., Philadelphia, Pa.**

Try VAN ZONNEVELD BROS. & CO.'S

SASSENHEIM, HOLLAND,
Hyacinths, Tulips, Crocus, Daffodils, and
other bulbs.

They are strictly first-class and cheap. Special quotations for Wholesale Importers.

Address all correspondence until May 1st to
W. VAN ZONNEVELD,
care J. W. Hampton, Jr. & Co., 41 Broadway, New York.

ALWAYS mention THE AMERICAN FLORIST when writing to advertisers.

Florists' Sweet Peas



New Sweet Pea "America"

Is more distinct and striking than any other variegated Sweet Pea in existence, and is of the large flowering type. Its color is a white ground and through the center of the standard is a wide carmine scarlet blotch veined with fine scarlet lines running toward the edges and showing in the same manner on the wings. The dashing contrast of the heavy scarlet blotch on the white ground makes the blossoms very effective in a mass of cut bloom or when flowering in the garden. It is indispensable for any complete collection of colors in Sweet Peas. Pkt. 15c; 2 for 25c; 5 for 60c; 10 pkts. \$1.00; 100 pkts. \$7.50.

BLUSHING BEAUTY, clear "Daybreak" pink, largest size. Oz. 5c; 1-4 lb. 12c; 1 lb. 35c; 5 lbs. \$1.50.

COUNTRESS OF RADNOR, clear lavender, very large flower. Oz. 5c; 1-4 lb. 15c; 1 lb. 45c.

EMILY HENDERSON, pure white, large early. Oz. 5c; 1-4 lb. 12c; 1 lb. 35c; 5 lbs. \$1.50.

HER MAJESTY, clear bright rose, very fine flower. Oz. 7c; 1-4 lb. 15c; 1 lb. 45c.

FIREFLY, brightest fiery scarlet, large. Oz. 10c; 1-4 lb. 20c; 1 lb. 60c.

MRS. ECKFORD, best large yellow. Oz. 7c; 1-4 lb. 18c; 1 lb. 55c.

MRS. SANKEY, large, white. Oz. 5c; 1-4 lb. 15c; 1 lb. 40c; 5 lbs. \$1.75.

INVINCIBLE CARMINE, deep crimson scarlet. Oz. 6c; 1-4 lb. 12c; 1 lb. 35c.

TRUE LOTTIE ECKFORD, white, blue edge, large. Oz. 5c; 1-4 lb. 15c; 1 lb. 40c; 5 lbs. \$1.75.

For other varieties see our "Book for Florists," sent free to florists.

VAUGHAN'S PRIZE MIXTURE SWEET PEAS. 10 lbs. \$7.00; 1 lb. 80c; 1-4 lb. 25c; oz. 15c.

ECKFORD MIXTURE. 10 lbs. \$5.00; 1 lb. 60c; 1-4 lb. 20c; oz. 10c.

Florists' Forcing Mixture. 1 lb. 60c; 1-4 lb. 20c; oz. 10c.

ALL COLORS MIXED. 10 lbs. \$2.50; 1 lb. 30c; oz. 5c.

If to go by mail, add 8 cts. per pound to above prices.

VAUGHAN'S SEED STORE,

NEW YORK:

26 Barclay St.

CHICAGO:

84 Randolph St.

California Grown FLOWER SEEDS.

INGLESIDE NURSERIES,

F. EDWARD GRAY, Proprietor.

ALHAMBRA, CALIFORNIA.

I have a small surplus of 1895 grown seed, such as Sweet Peas, Cosmos, Petunia, Chrysanthemum, Zinnia, Aster, Mignonette, Canna, Coreopsis, Gypsophila, etc.

Send for list and prices.

Bulbous Begonias.

LAING'S STRAIN. In separate colors.

Lilium Longiflorum, Tuberoses, Spiræas, etc. Now on hand.

Ask for prices.

HULSEBOSCH BROS., Englewood, N. J.

PLEASE mention THE AMERICAN FLORIST every time you write to an advertiser.

News Notes.

SALEM, O.—F. C. Morlan, for some years with J. E. Bonsall, died March 5.

OSWEGO, N. Y.—The graperies of Mr. Swits Conde were damaged by fire on the 25th.

LITTLE ROCK, ARK.—Spring trade has opened up better than ever. Peach and pear trees are in bloom.

MONTPELIER, VT.—Ernst Jacobsen, recently employed with W. L. Draper, has opened a flower store in this city.

BENTON HARBOR, MICH.—The Western Michigan Nursery Co. has been organized here with a capital stock of \$50,000.

STEVENS POINT, WIS.—The dwelling house of Charles Helm, the florist, was recently burned. Loss \$600; insurance \$425.

HARTFORD, CONN.—The spring exhibition of the Connecticut Horticultural Society took place in Jewell Hall on March 31, April 1 and 2.

BRISTOL, CONN.—The greenhouses of Frank Hanna were destroyed by fire on the morning of March 28; loss \$1,000, partially insured.

SAVANNAH, GA.—Wolf & Co. are building a new rose house 18x100, equal span, running north and south, with 2-foot sash in east wall. Raised benches.

WHITE PLAINS, N. Y.—Richard Cottrell, gardener to H. A. Schermerhorn, accidentally shot himself with a revolver on March 16 and is now at the hospital in a very low condition.

DETROIT, MICH.—The Western Club recently gave a flower festival here, which was a very successful affair. Plants and flowers were sold, and a program of music, etc. rendered each evening.

NEW HAVEN, CONN.—Chas. E. Langdon has started an extensive nursery on the borders of Lake Whitney, which will be known as the Lake Whitney Nursery. W. B. Conway will be in charge, as nurseryman.

NORTHAMPTON, MASS.—The spring flower show at the City Hall closed on the evening of March 26. As an exhibition it was a great success, but the public failed to appreciate it and the attendance was disappointing.

CORNING, N. Y.—A. H. Woepel & Bro., florists of this town, are making preparations to go to Germany to obtain their share of a very large estate left by an uncle. It is said that the share coming to these gentlemen will amount to several million dollars each.

Fine Anthemis coronaria superba fl. pl.
\$2 50 per 100.

3½ inch pot **ROSES**, our selection,
\$5.00 per 100.

Write for prices on anything you want.

NATIONAL PLANT CO.,
DAYTON, OHIO.

100,000 Extra fine Amaryllis Equestre,
\$25.00 per 1000.

100,000 Caladium Esculentum, in three
sizes, \$2.00, \$4.00, \$6.00 per 1000.

CANNAS of sorts, Zephyranthes, Colocasias,
Crinum and other bulbs.

Ornamental Grasses, Etc., at the lowest
prices.

R. BRYAN, Jacksonville, Fla.

IVORY! THE GREAT SUCCESS!

NOTHING IS IN MORE UNIVERSAL DEMAND BY FLORISTS THAN A GOOD.
PRODUCTIVE WHITE CARNATION.

In **IVORY** you will have it. Try it and you will have a money maker. It produces as many blooms as Wm. Scott, is as perfect in form as any Carnation yet produced, held by a calyx that never bursts and carried on a long, wiry stem. What more do you want?

Fine plants from soil. \$10 per 100; \$75 per 1000. Stock ready now.

Also fine stock of *all the other leading varieties*. SEND FOR PRICE LIST.

GEO. HANCOCK & SON, Grand Haven, Mich.

HERR'S CARNATIONS.

ROOTED CUTTINGS that will give good results, because they are taken from healthy stock, and will be well rooted when sent out.

VARIETIES:

McGOWAN,
STORM KING,
ALASKA,
ANNIE LONSDALE,
IVORY.

DAYBREAK,
SCOTT,
ROSE QUEEN,
PEACHBLOW,
DELLA FOX.

DORNER,
STUART,
PORTIA,
JUBILEE,
JAGO.

HELEN KELLER,
KITTY CLOVER,
ELDORADO,
CARLEDGE,
TIDAL WAVE.

Fourteen large houses full of Carnations. State how many you will want of each variety in asking for prices.

L. B. 496. **ALBERT M. HERR, LANCASTER, PA.**

The Bridesmaid Carnation

is the pink carnation you want. It averages more HIGH GRADE blooms than any other pink variety grown. It has a long stiff stem, strong calyx, perfect form of flower and a color that cannot be excelled in its class. It sells quickly at a high price, and stands at the head of the list of pink carnations. It won the honors at the American Carnation Society Show at New York as best pink in classes A, B and C. Its growth is clean and healthy.

Order now to get your stock early.

No Rust, Strong Cuttings.

\$5.00 per 100, \$40.00 per 1000.

If you have not already received our list send for it.

F. DORNER & SON,
LA FAYETTE, IND.

The Crack Carnations:



SCOTT, ALBERTINI,
DAYBREAK, McGOWAN.

Selected Cuttings, well rooted in sand and soil, delivery February 15th and later, \$2.00 per 100; \$15.00 per 1000.

Send your order at once, with cash, to get these figures. . . .

ALEX. McBRIDE,
ALPLAUS, N. Y.

PLANTS for EASTER

IN BUD AND BLOOM. Per 100
BEGONIAS, 3 and 4-inch pots. . . . \$3.00 to \$10.00
CALLA LILIES, 4 and 5-inch pots. . . . 10.00 to 15.00
CINERARIAS, 4 to 5-inch pots. . . . 8.00 to 10.00
DUTCH HYACINTHS, 3-inch pots. . . . 10.00
GERANIUMS, 3 and 4-inch pots. . . . 3.00 to 4.00
HELIOTROPE, 2 and 3-inch pots. . . . 3.00 to 4.00
PRIMULA OBSCURA, 3 and 4-inch pots. . . . 8.00 to 10.00
AGERATUM, White and Blue, 3-in. pots. . . . 3.00

WILLIAMS & SONS CO., Batavia, Ill.

Always mention the American Florist when writing to advertisers.

CARNATIONS, for 1906
Eldorado 5 40
Koblenz 5 40
Ophelia 5 40
Unc Jno 2 15
McGowan 10 1250
Fisher 2 15
Sweetbrier 2 15
Scott 1 1
Carlidge 1 1
Daybreak 1 1
Portia 150 1250
Buttercup 1 1
Orange Blossom 1 1
Helen Keller 1 1
KITTY CLOVER 1 1
VIOLETS.
Fenquhar 1 40
Campbell 1 1
CHRYSANTHEMUMS.
Elderdown 1 1
H W Rieman P

EDWARD SWAYNE.
CARNATIONIST
Kennett Squ Pa
Feb 1906
Gentlemen,
We take pleasure in purchasing 25 our column indicates one should like to draw you at London particularly to Carnations. Eldorado which we believe is destined to take the leading place among yellow, as it has shown up equally well on each side and in the market, bringing double the price of ordinary varieties also to Fenquhar Violet, which is making quite a stir in New England and of which we have very bright clean stock.
Yours truly
Ed Swayne

50,000 CARNATIONS ROOTED CUTTINGS

Now Ready

Positively clear of RUST. Send for price list.

William Swayne,

P. O. Box 226. KENNETT SQUARE, PA.

ONLY A FEW EDITH FOSTER CARNATION,

At dozen, \$1 50, and 100 rate, \$10.00.
Send for TRADE LIST of
NEW AND TESTED CARNATIONS.
PETER FISHER, Ellis, Mass.

CARNATIONS.

Rooted Cuttings in Immense quantity, strong and well-rooted and particularly free from rust.

Daybreak, Wm. Scott, Thos. Carlidge, Tidal Wave \$2.00 per 100; \$15.00 per 1000.
Lizzie McGowan, Silver Spray, Portia, \$1.50 per 100; \$12.00 per 1000.
Lady Campbell Violets in any quantity, \$1.00 per 100; \$8.00 per 1000.

JOS. RENARD, Unionville, Chester Co., Pa.

CARNATION CUTTINGS.

per 1000
DAYBREAK, TIDAL WAVE \$2.00 \$15.00
ALBERTINI, SCOTT 2.00 15.00
EMILY PIERSON 2.00 15.00
ROSE QUEEN, LIZZIE GILBERT 5.00 40.00
BRIDESMAID, METEOR 5.00 40.00
No rust and only healthy selected stock taken.

BELL MILLER, Springfield, Ill.

Garnation Orders

BOOKED NOW.

Good, clean, well-rooted stock. NO RUST.

	Per 100	Per 1000
BRIDESMAID.....	\$5.00	\$40.00
METEOR.....	5.00	40.00
STORM KING.....	5.00	40.00
UNCLE JOHN.....	3.00	25.00
STUART.....	3.00	25.00
E. A. WOOD.....	3.00	25.00
GOLDFINCH.....	4.00	35.00
WM. SCOTT.....	2.50	20.00
DIAZ ALBERTINI.....	3.00	25.00
DAYBREAK.....	3.00	25.00

CHRYSANTHEMUMS.

	Each.	Doz.	100
Mrs. W. C. Egan, new (ready March 1) \$	.50	\$5.00	\$35.00
Tippencanoe, new (ready March 1).....	.50	5.00	35.00
Amaranth, new (ready March 1).....	.50	5.00	35.00
Mr. E. M. Bigelow	1.00	8.00	
Mrs. S. T. Mordock.....	1.00	8.00	
Oakland.....	1.00	8.00	
Major Bonnafon and other choice older standard sorts.....	.75	5.00	

Send for descriptive trade list.

F. DORNER & SON,
LA FAYETTE, IND.

EMMA WOCHER, The New Shell-Pink Carnation

This Carnation is of a "lively bright shade," deeper than Daybreak, blooms measure from 2 to 2½ inches in diameter, fragrant, with a stem that carries the bloom erect at all times, calyx perfect, flower of good form; will grow erect with no other support than a V shape wire netting and is pronounced by all who have seen it to be an acquisition and many orders have already been booked. In our Cincinnati market it sells more readily than either Scott or Daybreak; it is not a cropper but a continuous bloomer.

Price for strong well-rooted cuttings, \$10 per 100; \$75 per 1000; 500 at 1000 rates. Cash must accompany all orders or satisfactory reference. Address

R. WITTERSTAETTER,
Sedamsville, Ohio.

Rooted Carnation Cuttings

THE 1896 NOVELTIES.
THE 1895 INTRODUCTIONS.
THE OLDER STANDARDS.
GOOD KINDS ONLY.
GOOD STOCK ONLY.

Apply for our 16-page Catalogue.

DAN'L B. LONG, JOBBING FLORIST
and Growers' Agent,
BUFFALO, N. Y.

CARNATIONS Rose Queen

	Per 100	Per 1000
Rooted Cuttings.....	\$4.00	\$30.00
Strong plants.....	6.00	50.00

No Rust with us.

A. DONAGHUE, Omaha, Neb.

LOOK HERE!

1000 Buttercup Carnations, the best yellow to-day; healthy stock, 2½-inch pots, \$5 per 100. Cash with order.

CONRAD HESS,

329 Friendship Ave.,

Baltimore, Md.

CARNATIONS

Per 100 Per 1000

ROSE QUEEN, ALASKA, MINNIE COOK, WM. SCOTT, HELEN KELLER, THE STUART, DAYBREAK, THOS. CARTLEDGE, LIZZIE McGOWAN, TIDAL WAVE, PORTIA,	\$5.00	\$40.00
	2.50	20.00
	2.00	15.00

FROM FLATS,

EQUAL TO

POT GROWN.



VAUGHAN'S SEED STORE, 84 & 86 RANDOLPH STREET, CHICAGO.

Carnations, Rooted Cuttings,

FROM FINE, HEALTHY STOCK PLANTS.

White—ALASKA, STORM KING, UNCLE JOHN, (no rust) McGOWAN.

Pink—ROSE QUEEN, PEACHBLOW, ALBERTINI, SCOTT, DAYBREAK, CARTLEDGE, Etc.

Scarlet—HECTOR, PORTIA, CORSAIR.

Crimson—METEOR, PRIDE OF KENNETT.

Variegated—H. KELLER, MINNIE COOK, CHESTER PRIDE.

Yellow—DEAN HOLE, BOUTON D'OR, BUTTERCUP, Etc.

All well rooted and sure to give satisfaction. Send for price list.

H. WEBER & SONS, Floral Park, Oakland, Md.

NEW CARNATION, W. D. SLOANE.

This new sort will prove a leader to all Florists. We know of no better variety of its color, and none can equal it in fragrance. The plant is a strong and vigorous grower, needing but little support, with dark foliage about as heavy as Tidal Wave. Flowers are large, good substance and lasting qualities, borne on stiff stems 15 to 20 inches in length; color a beautiful cerise. Very profuse bloomer.

PRICE, \$10.00 PER 100; \$75.00 PER 1000.

Pitcher & Manda, Short Hills, N. J.

Sam'l S. Pennock, 1612 Barker St., Philadelphia, who handles the entire crop of flowers of this new variety, says under date of March 26th, 1896: "Your W. D. Sloane, the way you grow them, are certainly fine, with the long stiff stems and good sized flowers. A ready sale for them is found at an advanced price over the average varieties."

Gold Getters AND PRIZE WINNERS.

Strong, healthy, well-rooted cuttings, from soil, of the following

Choice Carnations for Sale

BRIDESMAID	-	\$5 per 100
ELDORADO	-	5 per 100
METEOR	-	4 per 100
STORM KING	-	4 per 100

CASH WITH ORDER.

The Cut Flowers of above varieties bring the highest prices in N. Y. market.

Our Cut Carnations consigned to W. F. SHERIDAN, 32 W. 30th st., New York.

E. W. WEIMAR, Mt. Vernon, N. Y.

CARNATIONS

Orders solicited for ROOTED CUTTINGS.

KOHINOOR takes the lead.

Other Novelties of the Standard sorts at standard prices. All healthy and strong.

C. J. PENNOCK,

The Pines. KENNETT SQUARE, Chester Co., PA.

WATER HYACINTHS

AT 2 Cts. EACH.

THEY SELL IF NOTHING ELSE WILL.

By return mail, any quantity, or by express, charges paid. Address

PAMPAS GROVE, GREENLAND, FLA.

CARNATIONS

Per 100 Per 1000

OPHELIA.....	\$5.00	\$40.00
SWEETBRIER.....	2.00	15.00
SCOTT.....	2.00	15.00
DAYBREAK.....	2.00	15.00
CARTLEDGE.....	2.00	15.00
PORTIA.....	1.50	12.50
MCOWAN.....	1.50	12.50
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PURITAN.....	1.50	12.50

VIOLETS. Lady Campbell, splendid, inextinguishable, \$1 per 100; \$8 per 1000.

MUMS. At \$1.50 per 100. The following: Ivory, Yellow Queen, Mutual Friend, Marie Louise, Mrs. J. George Iles, Mrs. Craigie Lippincott, Mrs. E. G. Hill, and E. Dailedouze.

We can furnish other standard varieties of carnations if desired, and will fill orders now. Cash with order. Yours truly,

G. S. SWAYNE, Kennett Square, Pa.

Mention American Florist.

DO YOU WANT CARNATIONS?

If so, why not GROW the BEST?

50,000 ROOTED CUTTINGS, including Daybreak, Wm. Scott, Goldfinch, Lizzie Gilbert, Emily Pierson, Lizzie McGowan, Tidal Wave, S. Spray, Minze's White, &c.

Can do you justice in quality and prices. Write me before you buy. Address CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

Mention American Florist.

50,000 CARNATIONS

from flats, equal to pot grown. Warranted to give satisfaction. Cash with order.

	Per 100	Per 1000
ROSE QUEEN.....	\$5.00	\$40.00
DAYBREAK.....	1.50	12.00
WM. SCOTT.....	1.50	12.00
LIZZIE McGOWAN.....	1.50	12.00
SILVER SPRAY.....	1.50	12.00
TIDAL WAVE.....	1.50	12.00
PORTIA.....	1.50	12.00
J. J. HARRISON.....	2.00	15.00
VIOLETS, MARIE LOUISE.....	1.00	8.00

HENRY A. NIEMEYER, Erie, Pa.

WHEN writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

St. Paul.

Easter trade promises to be good. The store men are laying in a big supply of lilies and other plants, while the growers are busy putting the finishing touches to their stock and filling orders.

There is a good supply of lilies and a fair supply of other blooming plants. In cut flowers there will not be enough roses and carnations to go around. Bulbous stock is quite plentiful.

Some of the large stores are having their Easter openings, and nearly all use flowers or potted plants. One large clothing store gave away 5,000 roses last week; another one this week will place on sale potted lilies and hyacinths. All this tends to dispose of the surplus, and while some may growl about its hurting the trade, we think their fears are imaginary. The people who buy plants at such sales are not the ones who would buy from the florist.

The stock of L. G. Venzke, insolvent, is being sold at very low prices. This affects the regular florists' trade quite unfavorably.

Von Zonneveld Bros., of Sassenheim, where recent callers. They were selling bulbs.

L. L. May is in the East on a business trip. FELIX.

Cincinnati.

Business this week has shown a marked increase, especially among the market florists. Trade on the whole has been better than in the four previous weeks. The flower market on Saturday was well worth seeing. All of our florists were on hand, and their stands were well stocked. There were some well grown specimen plants of *Deutzia crenata* seen, which makes an ideal Easter plant. Lilies, tulips, hyacinths, *spirea*, *cineraria*, roses, azaleas and decorating plants are as usual in the lead. Carnations and roses will not be over plentiful for Easter, but there is enough other stock to go around. P. Popp had the best *cinerarias* in market. H. L. Sunderbruch is cutting some extra fine U. Brunners which wholesale at from \$3 to \$5 per dozen.

Mr. Frank Church, formerly of Chicago, is now engaged with Mr. Bob Betz, the Central avenue florist.

Hatten Bros., Columbus, are putting in a cut flower department in connection with their drug store. Karl Brown is manager. He was formerly with A. W. Livingston. HENRY SCHWARZ.

Nyack, N. Y.

Tunis DePew died at his home on Saturday evening, March 28, of heart failure, aged 64 years. Mr. DePew has been in declining health for the past three years. His place was the largest greenhouse establishment in Rockland County, and probably one of the oldest in the country; the business having been established by his father many years ago, and carried on by Tunis DePew since the time of his father's death, twenty years since. He leaves a widow, a daughter and two sons, the daughter being the wife of Mr. Blauvelt of Purdy & Blauvelt, New York. Mr. DePew was a man highly esteemed by his neighbors, and had been honored with the position of presidency of the School Board for a number of years. The florist business will be carried on by his two sons.

Always mention the American Florist when writing to advertisers.

Siebrecht & Wadley's

ROSE HILL NURSERIES, NEW ROCHELLE, N. Y.

The largest and finest Collection of **Palms** in **AMERICA**. The beauty of stock is **home-grown**, making dwarf in fine shape and stand more usage than imported stock. A **VISIT** to our **NURSERIES** or a trial order and you will be **convinced**.

SPECIALTIES: NEW CARNATIONS AND CHRYSANTHEMUMS OF 1895.

Palms for Growing. PALMS FOR SELLING. Palms for Decorating.

Areca lutescens, Cocos Weddelliana, Kentia Belmoreana, Kentia Forsteriana, Latania borbonica, Phoenix 5 varieties, *Pritchardia grandis*. *DRACENAS*, Commercial varieties.

The Grandest stock **Ferns** for **jardinieres** in 5 varieties. No equal to our stock. We have without exception, the finest stock of **Palms, Stove and Foliage Plants, Orchids and Ferns** in fancy named varieties for private use.

Before ordering **LILY VALLEY, LILIAM HARRISII** for next season, write us for sizes and prices. To your advantage. **WHOLESALE PRICE LIST READY APRIL 1st.**

SIEBRECHT & WADLEY, N. Y. OFFICE, 409 FIFTH AVE.

ADAISSY THAT SELLS

25 rooted cuttings of my new yellow *Marguerite* for \$2, by mail.

Nice 2-inch pot plants, ready for shift, 10 for \$1. It is a pleasing shade of yellow, very floriferous, with a double row petals, and stems 8 to 10 inches long.

Brides and Bridesmaids, 2 1/4-inch pots, \$4 per 100.

Fishers in 2-inch, \$2 per 100.

ALL AT STOCK.

Sample flowers mailed on receipt of 10c.

CASH WITH ORDER.

F. BURKI, Bellevue, Pa.

WATSON'S ENGLISH MUSHROOM SPAWN
THE  BRAND.

Unsurpassed in quality, always fresh, well spawned and reliable, can be thoroughly relied on to produce a fine crop of the best *Volvariella*. My stocks are the largest and finest in the country and I sell at rock bottom prices for first quality spawn. Guaranteed the best in the world. Hundreds of testimonials to prove it. A trial order solicited. Please pay few prices, per pound, by mail, postpaid, as follows: 10 pounds \$1.00. 25 pounds \$2.50. 50 pounds \$5.00. 100 pounds \$10.00. 250 pounds \$25.00. 500 pounds \$50.00. 1000 pounds \$100.00. 2500 pounds \$250.00. 5000 pounds \$500.00. 10000 pounds \$1000.00. 25000 pounds \$2500.00. 50000 pounds \$5000.00. 100000 pounds \$10000.00. 250000 pounds \$25000.00. 500000 pounds \$50000.00. 1000000 pounds \$100000.00. 2500000 pounds \$250000.00. 5000000 pounds \$500000.00. 10000000 pounds \$1000000.00. 25000000 pounds \$2500000.00. 50000000 pounds \$5000000.00. 100000000 pounds \$10000000.00. 250000000 pounds \$25000000.00. 500000000 pounds \$50000000.00. 1000000000 pounds \$100000000.00. 2500000000 pounds \$250000000.00. 5000000000 pounds \$500000000.00. 10000000000 pounds \$1000000000.00. 25000000000 pounds \$2500000000.00. 50000000000 pounds \$5000000000.00. 100000000000 pounds \$10000000000.00. 250000000000 pounds \$25000000000.00. 500000000000 pounds \$50000000000.00. 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Providence, R. I.

The quantity of bulbous stock grown this season has been rarely equalled in former years, and, unless the demand increases in proportion to the supply, the indications are that the market will be glutted with this sort of stock. Among other things, there is an abundant supply of Harrisi, the quality of which, on the whole, is all that could be desired. Indeed none of the local growers ever had them any finer.

For obvious reasons, it may perhaps be regarded as fortunate that roses and carnations promise to come in in more moderate quantities at Easter; as to the latter, quite a few growers throughout the state report their stock as "off crop," and a scarcity of good carnations seems almost imminent.

Mr. Wm. E. Chappell, the Branch avenue florist, seems to have a decided predilection for branching out in various other avenues in the way of growing novelties. Among his carnations I noticed some excellent seedlings averaging two and one-half and three inches in diameter, while a batch of pansies in one of the houses evoked my especial admiration. Among these I saw some specimens averaging three and one-half and four inches—actual measurement.

Mr. Chappell is, perhaps, the only florist in this section who grows such stock as genista and erica in quantity. Though not novelties, he nevertheless finds a ready and easy increasing demand for these plants. They are certainly fine and well grown.

I will remark in passing that Mr. Chappell has equipped his house with the best and latest modern improvements and his plant ranks with the best within and around the city of Providence.

Mr. T. O'Connor will soon commence removing his extensive greenhouse plant from Hope and Thayer streets to Blackstone boulevard. The land on the new site is being cleared at present and the erection of the houses will speedily follow. It goes without saying that the houses will be put up in a way to insure the best results.

Mr. I. Hazzard intends building a barn upon the site of the greenhouse which was recently destroyed by fire.

Thos. Curley has made extensive improvements about his greenhouses and has enlarged his office.

W. S. Dimond, of Barrington, will add another carnation house to his plant, and P. P. Barker, of Warren, will put up a new violet house about 100 feet long.

HOMO,

DON'T WAIT AND GET LEFT,

BUT GET YOUR ORDERS IN. Per 1000 Per 100
 Mme. Salicori Geraniums..... \$12.00 \$1.50
 Cuphea platycentra (Olgar Pland)..... 8.00 1.00
 Feverfew Little Gem..... 10.00 1.50
 Salvia splendens..... 10.00 1.25
 Alternanthera p. major and aurea nana..... 6.00 .75
 The above are grown in flats, and in fine condition.
 A few thousand Vinca Variegata, 2½-inch pots, \$2.50 per 100.

ROOTED CUTTINGS.

Golden Queen, the only all around yellow
 Coleus, and Crimson Verschaffeltii..... \$ 6.00 \$.75
 Coleus in variety..... 5.00 .60
 Double Petunias..... 12.00 1.50
 Fuchsias, named varieties..... 12.00 1.50
 Heliotrope..... 8.00 1.00
 Double Golden Marguerite..... 12.00 1.50
 Ageratum, blue and white..... 8.00 1.00
 Selection of sorts to remain with us.
 Cash with the order.

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Per 100
 Alternantheras, red and yellow..... \$2.00
 Ageratum, blue, 2-in. pots..... 2.00
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 Pansies, cold frames..... small \$1. larger 1.50
 Cash with order.

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GANNAS.**Going Fast.****GANNAS.**

MME. CROZY SOLD OUT, and only a few Alphonse Bouvier left. We can still fill orders for
 CHAS. HENDERSON..... \$3.00 per 100; \$25.00 per 1000.
 GEOFFROY ST. HILAIRE..... 2.50 per 100; 20.00 per 1000.
 ALPHONSE BOUVIER (limited quantity)..... 3.50 per 100;
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 EHEMANIL, price reduced..... 4.00 per 100; 30.00 per 1000.

Carnation "Abundance," dozen \$1 50; 100 \$10.00; 1000 \$75 00.

For prices on Carnation Cuttings and Chrysanthemums, see our adv. on page 919 of the March 21st issue of this paper.

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C. W. WARD, MANAGER.

Queens, L. I., N. Y.

Roses, Carnations, and CHRYSANTHEMUMS.

All in A 1 stock, now ready for IMMEDIATE delivery. Inspection or correspondence invited to all who need such.

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WE GUARANTEE full germinating power & replace seeds non germinating
 Per 1000 Per 5000 Per 10,000
 Cocos Weddelliana..... \$12.00 \$55.00 \$100.00
 Areca lutescens..... 10.00 47.50 90.00
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 Geonoma gracilis..... 12.00 55.00 100.00
 Geonoma Schottiana..... 15.00 65.00 120.00

On hand in excellent condition:

Latania Borbonica,

50c per 100; \$2.75 per 1000; \$12.00 per 5000.

Pandanus Utilis

\$1.50 per 100; \$12.50 per 1000; \$50.00 per 5000.

Chas. Schwake, 404 E. 34th St., New York.

PANSIES.

Grown from superior seed. Per 100 Per 1000
 Large transplanted plants..... \$.60 \$ 4.50
 MAMMOTH VERBENAS..... .70 5.50
 SMILAX, 2½-inch..... 1.00 7.00
 NEW CALIFORNIA VIOLET—Rooted
 Runners..... 1.00 8.00
 AZALEA INDICA, 13 to 16-inch, full of buds, 15c. each.
 These plants are ready to be delivered at once.

S. WHITTON & SONS, Wholesale Florists, City and Green Sts., UTICA, N. Y.

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ROEMER'S SUPERB PRIZE PANSIES.

The finest strain of Pansies in the world, including all leading Novelties.
 Plants, middle size..... 75c per 100; \$5.00 per 1000.
 " extra large, will be in bloom in few weeks, \$1.50 per 100; \$12.00 per 1000. Terms cash or C. O. D.
 Plants from cold frames.

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721 Marietta Ave., LANCASTER, PA.

ORCHIDS OUR SPECIALTY.**THE FINEST STOCK AND SELECTION IN THE WORLD.**

New and Rare Plants for the Stove, Greenhouse and Conservatory.

SANDER, St. Albans, England, & Bruges, Belgium.

A. DIMMOCK, Agent, care Rolker's Auction Rooms, 106 and 108 Liberty Street, New York City Send for catalogue.

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GERANIUMS—Double and single, for bedding purposes, choice colors, per 100 \$1.50, labelled.
 CARNATIONS—The standard white varieties, McGowan and Mrs. Fisher, at \$1.25 per 100 transplanted in flats, or \$1.00 per 100 from the sand.
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-- THE JENNINGS STRAIN --

of finest American grown Pansies from cold frames, fine stocky plants grown 5 inches apart; will be in bud and bloom April 1st. Stock the finest.

Cash with Price per 100.....\$ 2 00
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Plants, \$6.00 per dozen. Stock limited.

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Per 100 Per 1000
 ALYSSUM..... \$.80 \$ 7.00
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 In 2-inch pots add 70c. per 100.

CARNATIONS—Rooted Cuttings.

Lizzie McGowan, Silver Spray, Louise Singler, Daybreak, Tidal Wave, Scott. \$1.50 per 100; \$10.00 per 1000
C. LENCENFELDER,
 Bertheau and Western Ave., CHICAGO.
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	Per 100
Artemisia, silvery foliage.....	\$3 00
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Hibiscus.....	3-in. \$4; 4-in. 5 00
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Roses, Monthly and Tea.....	\$3 to \$4 00
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Palms and Decorative Plants. Our Palms	
are in fine condition, and we make better	
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Bedding Stock of all kinds.	
Send for Our Complete	
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GOOD STOCK.

	Per 100
Acalypha Macafeana strong 2½-in. .	\$ 8 00
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Aurea Reticulata	3 00
Alternanthera, Aurea Nana, Amabilis,	
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Anthericum Vittatum Variegatum, 4 in pots	
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Begonias, assorted, flowering, best sorts	
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Professor (new) dark foliage, 3	
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N. B.—All fine stock, strong and ready for a 3 or	
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Vinca, Alba, Alba Pura, and Rosea, from	
flats	1 00
N. B.—Rooted cuttings of Coleus, &c. Prices on	
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The above stock is in fine order and will surely please you. Orders amounting to \$5.00 and over, f. o. b. at New York. Cash with order, or C. O. D.

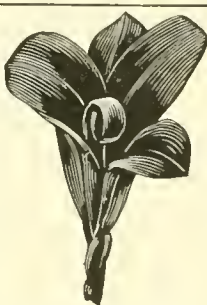
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7 to 9 feet, first-class.
\$25 per 100.

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CANNA COLUMBIA.

Order direct from the originators. Pot plants now ready. Price 50c each; \$5.00 per doz.; \$40.00 per 100.

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Fine stock; no mildew; \$2.50 per 100; \$20.00 per 1000.

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Wholesale Florists

RICHMOND, INDIANA.

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on this page please mention the AMERI-
CAN FLORIST.

Syracuse, N. Y.

The lecture given by Mr. Grove P. Rawson on the "Philosophy of Vegetation," was a great success; in spite of the worst storm of the season the large room was well filled and everyone was delighted, for Mr. Rawson has a delightful way of talking, besides being a thorough master of his subject. He illustrated his lecture by diagrams and natural flowers, all of which were fine examples. The lecture lasted for an hour and a half, everyone felt sorry it was ended, so well did Mr. Rawson hold the attention and interest of the audience. So far the society has gained 20 members. It is to be hoped that we shall in the near future have another visit from Mr. Rawson. Mr. D. Campbell, Supt. for Major Davis, decorated the room beautifully and showed some very fine plants of cinerarias, lilies and other spring flowers.

Arrangements are being made to give a free object lesson in the sowing of seeds and potting plants, which is much needed amongst many of our lady flower lovers. The necessity for a little more education in potting plants is best illustrated by the following: On one our coldest days a few weeks since I was sent for by a lady to pot a palm, which needed it badly, and as I preferred doing it in her own house I had everything ready when she stopped me with the remark, "Wait a minute Mr. Y., till I fetch you a knife," with surprise I asked what for. "Why to cut it out of the pot, of course."

The long continued spell of dull cold weather will seriously affect Easter flowers, for which there is likely to be a very large demand, as a sharp thaw has set in, and in a few days the snow will have left us, I trust for good this year.

The will of the late W. Brown Smith has been probated, the value of the estate is placed at \$250,000. H. Y.

DES MOINES, IA.—R. A. Rollinson, the florist, made an assignment March 28 for the benefit of creditors. J. S. Cupernell, a real estate man, is named as assignee of the property which belongs to Rollinson and his wife, amounting to \$60,000. Hannah Bomer bringing suit to obtain possession of 160 acres of land in the city limits brought on the assignment.

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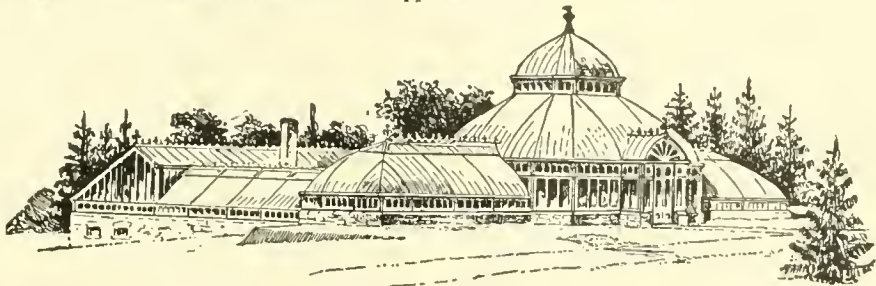
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Applied either by vaporizing or by syringing. Try it.

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THE HORSE IS STOLEN

DO IT NOW.

JOHN G. ESLER, Sec'y. H. A., Saddle River, N. J.

Mention the American Florist when writing to advertisers on this page.

Carlton Hill, N. J.

The first thought of a visitor at Julius Roehrs' place is, how easy it is to grow fine Easter stock, because every plant on the place looks extra well. You walk through acres of magnificent flowering plants. Mr. Roehrs has a fine lot of pink moss roses in pots, the delicate green foliage and the dainty moss bud being exceedingly attractive. He also has fine hybrids in pots. The bulbous stock all looks fine and is grown by the hundred thousands. The rhododendrons are a grand sight. There seems to be every color and shade, and each plant is a mass of bloom.

Here you see azaleas of every size and color, from great trees down to little pot plants. Some of them are quite out in flower now and will have to be kept in a cool place for the next week. The kalmia is another most attractive pot plant. The flowers when forced are larger than when it flowers out of doors, and a more delicate color. Mr. Roehrs has some fine standard lilacs in bloom, also genista and acacia, and plenty of *Lilium longiflorum*. Several houses of daisies are looking fine. The bougainvillea is another attraction.

S. M. T.

Portland, Me.

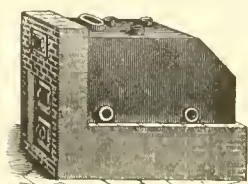
The florists of this city generally report business as having been poor throughout the winter. J. A. Drwanger found the sale for Roman hyacinths, lily of the valley and other forced bulb stock to be very slow, results not being sufficient to pay for the first cost of bulbs. Mr. Drwanger has a splendid *Acacia pubescens*, said to be the largest this side of Boston, in full bloom at present, also a fine display of hybrid roses, Murechal Niels, orchids and heaths. Albert Drwanger, who has been confined to his home with a severe cold, is much better, and his many friends will be pleased to see him about once more. J. W. Minott & Son, who bought out the Morton establishment on Congress street, report business as very satisfactory with them. There has been an unusual number of funerals here during the month of March, Portland having suffered the loss of a number of her most prominent citizens.

Rutherford, N. J.

Mr. A. Nadler is doing a good trade here this season. He finds his store quite profitable, as he is thus able to dispose of his superfluous product. He grows a general assortment of stock. He has had considerable demand all winter for all bulbous stock for local orders, the daffodils being a general favorite. Mr. Nadler has done very well with violets this winter. He has picked large quantities and has had no disease. His mignonette is very fine, and he has cut quantities of it all winter. In carnations Mr. Nadler grows Daybreak, Scott and Lizzie McGowan for the most part, the most profitable one being McGowan, as that is always covered with flowers.

There is always a good demand for funeral work in Rutherford. The white swainsona is a very useful flower in this work.

S. M. T.



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Announcement to Florists.

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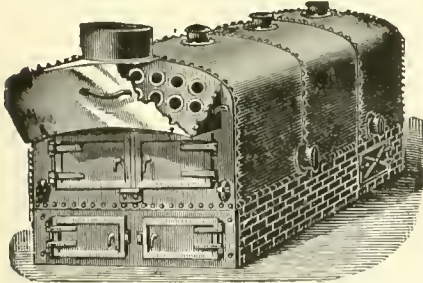
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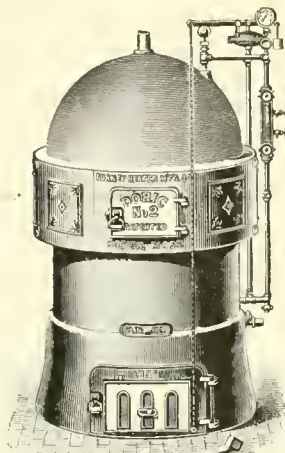


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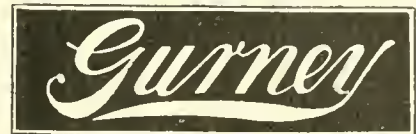
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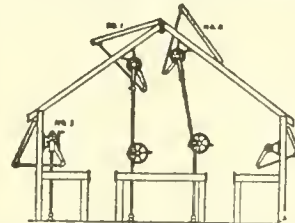
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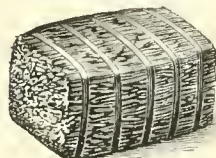
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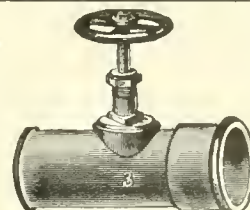
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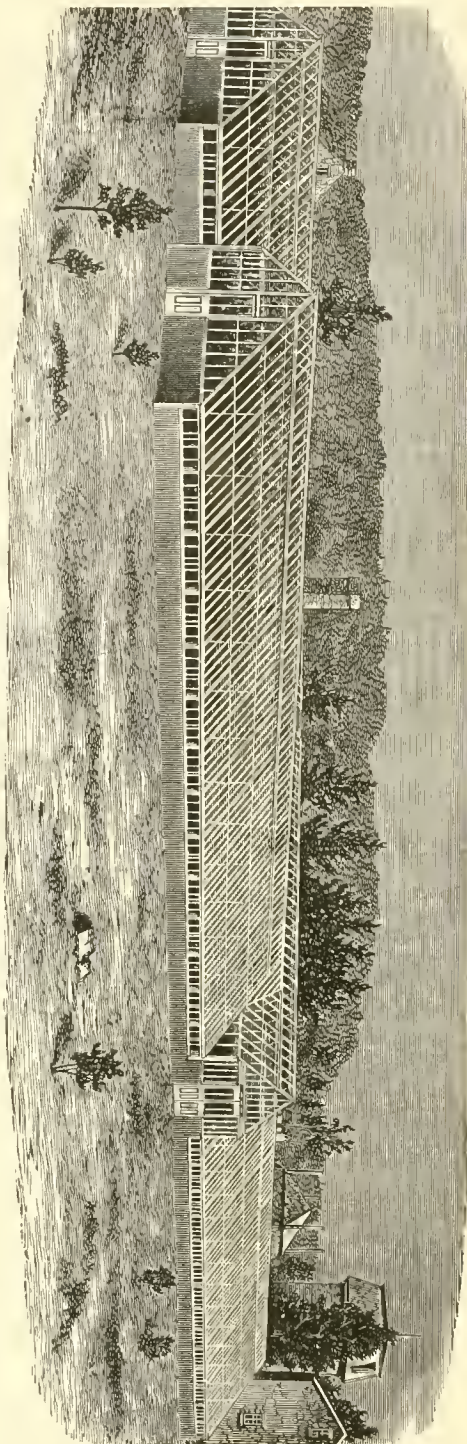
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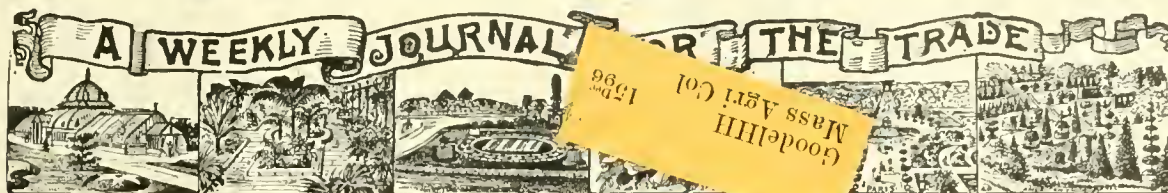
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Vol. XI

CHICAGO AND NEW YORK, APRIL 11, 1896.

No. 410

THE AMERICAN FLORIST

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Cleveland, O., vice-president; W. J. STEWART, Bos-
ton, secretary; H. B. BEATTY, Oil City, Pa., treasurer.
The twelfth annual meeting will be held at Cleve-
land, O., August, 1896.

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PRESIDENT SCOTT is now able to go out occasionally, with the assistance of a crutch. He is daily gaining strength, and hopes to be considered fully recovered by the end of the present month.

Sweet Peas.

Replying to the inquiry as to the earliest date sweet peas can be had in bloom in spring in any part of the United States, would say that in California they have bloomed on March 15. In the vicinity of Chicago they may be looked for on June 15.

In the sweet pea bulletin of Cornell University Agricultural Experiment Station, Ithaca, N. Y., with a list of 106 varieties, the earliest bloom is recorded on July 13, but the seed was planted as late as April 30. H. A. STALLWOOD.
Austin, Ill.

THE EASTER TRADE

MILWAUKEE, WIS.—An increase of 10%. Retail prices same as last year. Supply equal to demand, quality finer. A slight increase in sales of plants.

TOLEDO, O.—Increase of 25%. Retail prices same as last year. Supply equal to demand, quality better. Less sales of plants and more of cut flowers.

HAMILTON, ONT.—Volume of trade and retail prices about the same as last year. Supply equal to demand. Quality good. Sales of plants hardly equal to last year.

YOUNGSTOWN, O.—A decrease of about 30%. Supply equal to demand, quality as good as last year. No change in sales of plants. Increased call for cheap flowers.

KANSAS CITY, MO.—Increase of 25%. Supply ample except violets, quality good. Sales of plants increasing every year, especially hyacinths, cinerarias and Harrisii lilies. Palms sold well and there was an inquiry for cyclamens.

FT WAYNE, IND.—An increase of 50% in total returns, due partially to an increase of 20% in retail prices. Supply equal to demand and quality better than last year. No noticeable change in call for plants. Bulb stuff sold better than last year.

EVANSVILLE, IND.—Increase of about 50%. Retail prices about same as last year. Supply equal to demand. Quality of lilies excellent. Sales of plants about 10% larger. Lilies led. Great run on roses, hyacinths, daffodils and carnations for out of town customers.

UTICA, N. Y.—About same as last year. Would have been better but for bad weather. Supply equal to demand, quality better than last year. Very high priced azaleas were not in demand, and the people that were able to buy the larger quantity, bought the least.

PEORIA, ILL.—Best Easter in ten years. Retail prices higher, especially for good stock. Supply equal to demand, quality much better than last year. No change in sales of plants. Most all sales were for cash; indicating that money is not scarce. Select stock brought good prices and sold first.

NASHUA, N. H.—Largest sale of longi-florum lilies ever known. Carnations very short; good demand for roses, especially hybrids; violets went quick at good prices. On the whole prices were about the same as last year, except on carnations, which were higher. Weather very cold, with lots of wind.

DAVENPORT, IA.—An increase of 10 to 15%. Retail prices about same as last year. Supply equal to demand, quality

good. An increase in the sale of plants, lilies azaleas and hyacinths leading. People in general bought more freely than in former years, due probably to the fact that goods were set before them in quantity and of good quality.

SYRACUSE, N. Y.—Increase of about 25%. Retail prices same as last year. Supply equal to demand. Carnations and roses not quite up to the mark in quality, other stock good. Sales of plants much larger. Pans of hyacinths, tulips and other bulbs, and Begonia nivea, sold well. There were more flowers used for church decoration than ever before.

DETROIT, MICH.—An increase of 10%. Retail prices about same as last year, larger supply of flowers and quality better. Increase of 50% in the call for plants. Could have sold more roses. Increased demand for large plants of lilies and roses. Trimmed pot plants sold well, in fact the plant trade gives the cut flower sales a black eye.

LOUISVILLE, KY.—Increase of about 15%. Retail prices rather better. Supply equal to demand except lilies. Quality of the carnations, violets and roses was much better than last year. An increase in sales of plants, owing probably to the fine weather. The sales seemed to be very largely to buyers not usually patrons and not so much to regular customers.

CAMDEN, N. J.—Nearly double that of last year. Could have sold more carnations. Good stock went quickly at 75 cents a dozen. Low grade stock was unsalable, while best quality were quick sale at fancy prices. In plants protected stock sold well at good prices, but plants on the street were badly damaged by cold and wind and had to be sacrificed. There seemed to be an absence of hydrangeas.

DES MOINES, IA.—Volume of trade about same as last year but an increase of 25% in retail prices which made the cash returns one-fourth larger. Supply ample except carnations. Roses were better in quality but there were a good many pickled carnations. Larger call for plants, particularly for lilies and hydrangeas. Very little call for bulbous stuff; what the people wanted was roses, carnations, callas and Harrisii lilies.

ELMIRA, N. Y.—About same as last year both as to volume and prices. Supply equal to demand, quality better. Increase of 20% in sales of plants. Increase in call for violets, Jacq roses and pink carnations. Customers are not willing to pay fancy prices for even fancy stock. Individual sales are not as large as formerly, but there are more individuals as buyers. Trade was less than it would have been on account of cold

weather and high winds. It was very difficult to move and deliver plant orders.

Forced Shrubs and Hardy Herbaceous Plants at Bussey Institution, Boston.

The two views in the greenhouses of the Bussey Institution, beautiful as they are, convey but a slight idea of the brilliancy of the display made with these simple and easily managed subjects. We publish them in the hope that by this means some of our progressive florists may be stimulated to make a beginning in this line, believing that it is only necessary to call attention to the possibilities that are within reach of every one and that the time is not far distant when in the vicinity of all our large centers collections of this character will be accessible to floral decorators.

There is always a scarcity of graceful flowering plants suitable for this purpose, the range of material in the ordinary run of florists' stock being very limited, and without question a good market is assured to the man who will take hold energetically and push this class of subjects, which may be had in flower in constant succession from the day the chrysanthemums are thrown out until the spring shrubs are blooming outside. The plants are inexpensive to start with and require only to be stored in a cold pit until wanted. Unsold stock is not lost, for it is still available for outdoor planting.



Bacteriosis.

I enclose herewith foliage of Daybreak carnations which are badly affected with disease, what I take to be bacteriosis. My houses are clean and well ventilated daily. Temperature 65° to 70° daytimes, 50° to 55° nights. If good weather they are syringed twice a week. Once in two weeks syringed with sulphide of potassium or copper solution; two-thirds ounce to one gallon of the former. Can you suggest any remedy for the trouble? It is my first experience with it. W.

This is bacteriosis. Do not syringe as often. Water under the plants, and probably they need a little more water than they do get with the syringing alone, also give nourishment in the form of well prepared liquid manure, give light, but often; a little common salt is beneficial in the liquid manure. Observe these rules: Keep the foliage dry, syringe only when applying a solution of some kind, on sunny days, keep the soil well watered and give nourishment. Weakness, or any check the plant may receive, will cause a lag in the resistance the plant will naturally exercise; and a moist or wet foliage will promote the entrance of the bacteria through the pores.

FRED DORNER.

Yellow Carnations.

ED. AM. FLORIST: Mr. Fred Dorner states in AMERICAN FLORIST of March 28, that "There is no clear yellow carnation in cultivation; all are more or less striped and mottled with pink to a deep crimson." I have entire faith in Mr. Dorner's

sincerity, but shall have to discount his knowledge on this point. Field of Gold may possibly be out of cultivation, but when we had it it was a perfectly clear yellow, without a trace of anything else. Pride of Penshurst I believe was entirely clear. W. R. Shelmire now has a seedling that is so. My brother C. S. Swayne also has one. I have several times seen among batches of seedlings at Avondale and here flowers that had reverted to the primitive single type as pure as primroses.

EDWARD SWAYNE.

In reply to Mr. Ed. Swayne's corrections, I admit that I should have said "in general cultivation," and that is what I had in my mind, and if any pure yellow variety is in general cultivation at present, I admit again that I do not know it. We hardly can call a variety in cultivation that only exists on the originator's place, and probably will never go beyond. I have myself several clear yellow ones among my last year's seedlings, and had them in former years, but if they will ever go beyond my place, I can not say. Seedlings are cultivated, but are not in cultivation without the pretext "general."

As to Field of Gold, whether in cultivation yet or not, I could not say. I did try to grow it myself, but it proved a sorry failure, as I never could get a dozen flowers from fifty plants, and do not remember if they were clear yellow or not. Golden Gate is another one that came at times clear yellow, at other times badly mottled with copper red. Pride of Penshurst is I believe as much out of cultivation as Field of Gold, Andalusia or any other of the old so-called clear yellow varieties.

The yellow bloom sent with the communication I suppose was intended to show a clear yellow one, but although very much wilted when it reached me, I could detect some pink stripes in some petals. When we speak of a pure yellow it should be as pure in color as a pure white or pink. We may allow a slight shading, but no stripes or penciling.

This is rather an interesting theme, and I may add a few notes pertaining to yellow varieties. My experience is that the pure yellow varieties are more or less of a weak constitution, therefore unproductive and more susceptible to disease. To strengthen their constitution we have to cross them with strong vigorous growing varieties of other colors. We succeed in that point, but with the crossing we also modify the color, hence the stripes, penciling and their tendency to sport. It appears to me, that when that color becomes obliterated probably by propagation, or is eradicated in succeeding crossings with pure yellow varieties, these new varieties appear again less vigorous. The same existed with white varieties. President Degraw, a clear white, but a weak and spindling grower, Edwardsi and Hinz's White, vigorous growers but striped with pink. But in the whites better success is perceivable, as we have now white varieties, with strong vigorous constitutions.

Judging from the dominating pink color, the original, centuries ago, must have been of a purplish pink; that may have given rise to the blue pink of ages ago, for the purplish tone in the pink, crimson, maroon and scarlet, crops out plentifully in a batch of seedlings. The pure shades of these colors and more so the white and yellow, are the result of culture and cross-fertilization. On a bench of seedlings the production of all colors in a pure clear shade, with a strong vigorous growth is noticeable more and more

with the exception of the yellow. A pure yellow generally proves to be a poor grower. The blue color and more so a pure blue has been and will stay a myth.

Another noticeable feature is, that the striped and variegated varieties prove generally the strongest growers, the striped yellows included. This shows the result of cross-fertilization, where the blood, a mixture of two varieties, is unmistakably noticeable. Pure colors are generally of a more weak growth; but there are exceptions, and to these belong the good self colored varieties in cultivation now.

These are observations made in my experience of growing new varieties for the last seven years. We have good strong growing varieties profitable to grow of pure shades in all colors, with the exception of yellow, but undoubtedly that color will be conquered too, and to see such yellow varieties in cultivation is only a question of a little more time.

FRED DORNER.

Ferns.

I want to plant out a lot of different kinds of ferns for spores in a solid bed. How would you advise me to prepare it and what kind of soil to use. F. W.

If the ferns are to be planted out in a solid bed, as indicated by our correspondent, it would be best to begin with a good layer of drainage material in the bottom. A depth of six inches of broken stone, brickbats or coarse cinders would answer very well, and on this should be placed from four to six inches of soil, using the coarsest in the bottom.

Rich soil is not needed for the production of spores, and sandy loam without any fertilizer will be quite satisfactory for the ordinary trade species of ferns, for example *Adiantum cuneatum*, *A. pubescens*, *Pteris cretica* and *P. serrulata* in their various forms.

These should be planted from one foot to eighteen inches apart according to their growth, shaded moderately and kept at a night temperature of 58° to 60° and also ventilated freely.

W. H. TAPLIN.

New York.

New York experienced a new variety of Easter this time. "Cold and raw the north wind blew" for several days preceding, and on Friday it snowed. It was more like Christmas than Easter in this respect. On Saturday, the great day, the temperature stayed in the neighborhood of the freezing point, making it risky to attempt to transport plants without some protection from the weather, and the wind howled at a rate that warned all florists to keep their goods indoors. So the customary gorgeous display on sidewalks and front areas was missing, and its absence must have counted heavily against the plant trade. Up to Saturday forenoon business lagged, and it looked as though there was going to be a slump, but as soon as the buyers realized that there was no hope of the weather moderating they came out in force, and the big masses of flowering plants melted away as if by magic, and in the end all acknowledged full satisfaction. In stores of limited area every available inch of space was taken up, making it difficult to move around or properly handle the trade.

The great bulk of the plant stock consisted of lilies and azaleas. Of other flowering plants there was variety enough,



FORCED SHRUBS AND HARDY HERBACEOUS PLANTS AT THE BUSSEY INSTITUTION, BOSTON.

but the quantity of any one kind was very small. Azaleas sold better than ever before, and the quality was fine throughout. Lilies were, as a rule, short and well-proportioned, there being very few of the tall ungainly type of *Harrisii* that have been so plentiful in other years. There were not many genistas to be seen, and these found no buyers. The day of the genista's popularity has departed, *Acacia paradoxa* in plants of various sizes, well-flowered, sold fairly well for a novelty and took the place of the genista where yellow was wanted. There were quantities of well-bloomed daisies everywhere, but their sale was limited mainly to church decorations. Of bulbous stock there was a shortage. The quantity available was much less than last year and the demand appeared to be good. Rhododendrons were generally of dull colors and few in number. The most pleasing novelty seen was some handsome specimens of *Andromeda floribunda*. Neat pyramidal shaped plants of box from four to five feet tall in white tubs were used for outside decoration in some instances.

As regards plant trimming there was opportunity for the gratification of all tastes. Some dealers ignored all ribbon, pot covers or fancy papers, relying only on the plain flower pot as it came from the greenhouse, while others carried the tissue paper dressing to the most absurd extreme, plants being so buried in a succession of flounces as to be almost hidden

from sight, and furnishing in many cases terrible examples of the most shocking taste in mixtures of color. Between these two extremes there were all grades. In some of the larger establishments where tissue paper was proscribed ribbon was used freely and white celluloid receptacles were provided to cover the pots. Tulle of various shades was also used in connection with ribbon. Ribbon stamped with representations of flowers was seen occasionally, but the effect of this was far from pleasing. Mixed collections of plants in baskets were not in evidence as compared with last year. Among the prettiest things seen were some shallow gilt baskets filled with violets or English primroses, the high handles being ornamented with bows of purple or yellow satin ribbon, respectively. Hydrangeas looked well with bows of pale blue ribbon among the flowers. Some florists had their tissue paper deckings all prepared before hand, forming them over wire frames made to fit flower pots of various sizes.

The cut flower trade profited by the cold weather in two respects; the production was shortened up and the difficulty of handling plants under the circumstances turned customers' thoughts to cut flowers as a convenient substitute. On the other hand the trade in the lower grades of cut flowers suffered, as the Greeks who are the great medium through which this class of goods is marketed were seriously hampered in their sidewalk trade. Those

who had no glass show case with which to protect their wares made a sorry display after the wind and dust had got in their fine work on the lilies and roses. Carnations got the cold shoulder from the Greeks from the outset, the price being above their limit. Violets and mignonette were both overstocked and they took the place of carnations for street trade. Violets sold cheap, but this was their salvation; had any attempt been made to stiffen up on violet prices the loss must have been great, for the quantity sent in was almost beyond belief, many growers shipping all the way from twenty-five to fifty thousand in a lot on Saturday alone.

As usual the retailers gave but little thought or attention to their cut flower trade while the plant business continued, so that it was not until Saturday noon that much local demand in this line had been experienced by the wholesale dealers. The shipping trade was first class, however, and the commission men were well cleaned out on desirable stock on Thursday night and on Friday night also. The big demand was for roses, carnations and smilax. As far as either of these specialties in fancy grades were concerned Easter might have been dispensed with, for there is no surplus of the right kind and they go without effort. The finest roses in the market were the Jacobs from Wiegand Bros., the selected extra specimens of which measured three feet of stem, blooms and foliage being

equal in size to the finest American Beauties, and bringing, like them, nine dollars a dozen at wholesale. There were heaps of Beauties, but most of them, as Charlie Carlin would say, "only cooked on one side." In carnations the crack growers, such as Ward, Suydam, Reimels and Dailedouze, had a clear field and results ought to be exceedingly satisfactory to them.

There was but little evidence that the growers had done any storing of flowers except in the case of lilies. Of these there was a goodly proportion that showed signs of long keeping, and the shrinkage on some lots must have been considerable. Evidently the outside trade had grown enough lilies for their own needs, or past results in lily shipments have been unsatisfactory, for there were practically no lilies shipped, and the local market had to manage the whole crop. Other bulb stock was decidedly draggy; no advance in prices possible, and but little increase over the ordinary demand, which is absurdly small this year. Another unfortunate item was mignonette, which came in crates, regardless of express charges, and once in refused to either budge or pay rent. The prettiest novelty in the market was a lot of moss rose buds seen at Julius Lang's.

A. & F. Rolker held their first sale of bedding plants on Tuesday, April 7, and will continue them regularly throughout the season on Tuesdays and Fridays. Mr. August Rolker returned from his vacation trip on Thursday last feeling much improved in health. The Easter plant sale at this establishment on March 31 was a success.

Fleischman will move into his new store on the corner of Broadway and Twenty-fifth street about May 1.

Mrs. P. F. Handley, Jr., died at her home in Brooklyn on Wednesday, April 1. Ernst Asmus is contemplating a trip to Europe the coming summer.

Mr. L. G. Forbes has been secured to succeed Mr. Wm. Falconer at Dosoris.

John Reimels will make large additions to his carnation establishment at Woodhaven this season.

C. W. Ward has been on the sick list; Jas. Purdy ditto; both improving since Easter.

Pittsburg.

The florists are taking things more quietly this week, resting after the rush of last week's Easter business. Saturday, the great day, opened with snow and strong cold winds, the sun not showing until afternoon, which was greatly against those who did not have enclosed places in which to exhibit and handle their flowers. Some estimated they would have done one-third more business had the weather been as it was on Sunday, which was an ideal Easter day, but with the others it did not materially affect them, only resulting in throwing the trade into a few hours instead of having a whole day to attend to it.

Carnation were as expected, scarce, but all other flowers were in abundance; prices generally good and sales heavy, everyone expressing themselves as satisfied, very few having any stock unsold at closing time on Saturday night.

The same conditions prevailed on the "South Side" as well. Mrs. E. Williams, 1713 Carson street, reports having had a better Easter than for four years past, and is well pleased with the new houses erected last fall, having to buy very few flowers last week, although all hands worked continuously for fifty hours to

finish all orders, which was done at 2 a. m. Sunday.

In the east end Messrs. Randolph & McClements and Mr. C. H. Becker were driven to the utmost up to the last minute, and are consequently correspondingly happy, and those situated in the north side (Allegheny) and central part of the city are in the same comfortable condition.

Miss Anna Klopfer will open at 622 Smithfield street in a few days a store for sale of plants and cut flowers. The store-room is being remodeled, first story marble front and second story fine glass front. This floor will be devoted to sale of plants; also contains the office, the first floor for cut flowers, designs, etc. Her greenhouses are in Allegheny City, seven in number, and cover an area of about 12,000 square feet, and the intention is to erect as much more this summer. They are under the care of Jno. O. C. Von Schubert, formerly with Messrs. Haage & Schmidt, Erfurt, Germany. Miss Klopfer is a member of our club, and all will be pleased to have her succeed.

Mr. Wm. Falconer has arrived and assumed charge of Schenley Park as superintendent; he arrived at a time when he will see the flower lovers of Pittsburg and vicinity in great numbers, the show at Phipps conservatories having opened on Easter. The actual count as taken by Mr. O. W. Brown, the chief clerk, showed that all previous records were broken that day, and it is also beyond dispute that the display surpasses any heretofore given, reflecting the greatest credit on Mr. Joseph Spring and the gardeners under him for their skill and attention, they having been in full charge of the conservatories ever since the late Mr. Bennett was taken sick in December last. Mr. Falconer, who can certainly view this exhibit as an outside expert, not having been concerned in the arrangement of it, expresses the opinion that it is not equalled by any show in this country, and that it is worthy of all the praise that can be bestowed upon it. The first house after leaving the palm house displays in the center a large number of cinerarias which have "kept" wonderfully, being in bloom a long time, and genistas (the Dean seedlings); around the sides and ends are among other blooming plants fine specimens of *Prunus triloba* (little plum), *weigelia*s, yellow flowering currant, lilacs in variety and the new Chinese shrub, *Xanthoceras sorbifolia*, with spikes of flowers resembling a small horse chestnut, white swainsona and *Solanum Seaforthia* in great beauty.

In the Victoria regia house the place occupied by it in summer is covered by an immense pyramid of roses, surmounted by an elegant specimen of the sweet bay tree. Among the nearly fifty varieties of hybrid and Noisette roses seen here probably the most striking and best are Paul Neyron, Ulrich Brunner, Baroness de Rothschild, Gloire Lyonnaise, Gloire de Margottin, Countess of Oxford, Fisher Holmes, Jacqueminot, Magna Charta, Mme. Gabriel Luizet and Alfred Colomb. They form a most beautiful sight, surrounded as they are by lilies, daisies, white and yellow; azaleas, spiræas, genistas, etc.

In the adjoining house are large quantities of the E. A. Wood carnation, with great sheaves of pale pink blooms, while a seedling, Schenley Pink, with its profusion of bloom, being as free a bloomer as Scott, attracts a great deal of attention.

In another house is found a large collection of hyacinths and tulips. About the best of the former are for blue, William I,

Charles Dickens, Czar Peter and Baron Von Thuyll; for white, Baron Von Thuyll, Alba superbissima, Mina and La Grandesse; for pink, Gigantea, Norma, Moreno and Prince of Orange; for red, Mme. Hodson. Best single tulips are La Belle Alliance, scarlet; Duchesse of Parma, orange red, yellow border; Joost Von Vondel crimson, red and white; Kaiser's Kroon, yellow and red; Vermilion Brilliant, bright scarlet; Chrysolora, pure yellow; Pottebakker, yellow; Couleur Cardinal, crimson scarlet; Thomas Moore, orange. Best double tulips are Couronne d'Or, yellow; Murillo, bluish; Salvator Rosa, deep rose; Tournesol, red, yellow border; and Rex Rubrum, scarlet.

The exhibit of azaleas is grand; the individual blooms are very large, with the plant completely covered, nothing to be seen but the flower; the best of this collection are Cocarde Orange, Empress du Brazil, Mme. Lefebvre, Oswald de Kerchove, Fleur de Marie, Eugene Mazel, M'dlle Lefebvre, Mrs. Chas. Turner, Ermine, Glory of Sunning Hill, Mme. Vandercruyssen, Reine de Blanches, Ceres and Vervæiana.

These, with many other varieties of flowers, foliage plants, etc., arranged as they are with due regard to color and form, certainly show the vast amount of care and thought that was necessary to bring all into such perfection.

Mr. Falconer will soon become accustomed to his surroundings, and no doubt impress his individuality on the place, which is but in its infancy, increasing his reputation as one of the foremost florists of the age. The people here stand prepared to welcome him and endeavor to make him one of us.

The floral display at the Phipps' conservatories in Allegheny attracted a great deal of attention; the attendance on Sunday was very large, and crowded the houses beyond comfort all day. The exhibit there was very fine, eclipsing former years, and Superintendent Wm. Hamilton deserves the encomiums given him on the successful show. A detailed account will be given later.

John L. Wyland is about again after a two week's illness, looking pretty well.

Mr. N. Patterson is also able to be at his store part of the time although not entirely well.

Mr. T. Ulam, of Elliott & Ulam, is home after a week's sojourn in New York; the boys must have been very good to him judging by his looks and feelings.

REGIA.

Buffalo.

Easter has been here and gone and the joyous time has left happy memories in the minds of almost all we hope, but it certainly has not with our local florists. I failed to look at the weather reports of other cities through an overdose of anxiety watching our own, but I am afraid a large section of our country fared as badly as we did. The beautiful weather of the early part of the week vanished on the Wednesday, and in its place came snow flurries, frost and wind; all delivering was put off till the Saturday, and no doubt intending purchasers delayed their orders for the promised warm Saturday, but alas it did not come. Saturday opened bleak and cold and for only one short hour, about 2 p. m., did the thermometer show 2° above freezing, and it would have been far better if it had never reached that elevated point, for it was only a deceiver. During that short interval many loads were hurried off exposed in an open wagon, and before they had gone two blocks down went the temperature



FORCED SHRUBS AND HARDY HERBACEOUS PLANTS AT THE BUSSEY INSTITUTION, BOSTON.

and down came a flurry of snow. You will say enough of this weather report. The fact is it was a most disastrous time. The worst I ever remember.

In the aggregate, among all the craft, we had to receive more kicking, grumbling, etc., about frozen and delayed orders than has occurred in the past ten years. I heard of one man having fifty frozen lilies to replace, and all others had a more or less similar experience. And this is not all the trouble; the great bulk of the business being crowded into the last day of the week it was impossible to dispose of and handle all the stuff that was for sale. We are not troubled yet with the street fakir, but a thrifty set who earn an honest penny in our public markets by the sale of plants and flowers were sadly handicapped. Some of the market people handle immense quantities, and this Easter their profits must have been small if any.

Churches of all denominations decorated more or less, but nothing lavish was heard of. Ten years ago the description of the flowers and music would occupy several columns in our leading dailies. This year it was all lumped together in a very brief paragraph.

There is little doubt in my mind that had the elements given us a fair show the business would have been all that was desired. Lilies, in point of number, were most in demand, but the azalea was the favorite with the best class of buyers;

after them came other stuff in lesser quantities. The three standard flowers, roses, carnations and violets, were what everybody wanted. Bulbous stuff was not looked at much. Valley was not in much demand, but good mignonette was.

Prices were perhaps a little less than last year on cut flowers, but not on plants. At retail tea roses brought per dozen \$2.50, violets \$2 a hundred, and carnations from 50 to 75 cents per dozen. Some few hundred fine Helen Keller brought \$1. For size, substance and stem this fine fancy flower has few equals. Smilax is scarce in town, as it usually is about this time.

The promise of a good crop of spring weddings in the near future is keeping up our spirits, and if Easter was not a Cripple Creek investment for all of us, we can look forward to a good spring business when the glacial period has left our latitude. We won't grumble any more. Think of poor Mr. Scrim in Ottawa, Ontario, and Mr. Bennett in Montreal; no doubt they delivered their Easter orders on a sleigh.

W. S.

Toronto.

Reports from the various florists round town vary somewhat, but all are agreed as to the enormous supply of cut flowers of all kinds sent in, and very few report having anything of consequence left over. The weather on Friday and Saturday was bitterly cold, just enough to induce the

pious florist to let loose his "tendency" to profanity, in consequence the plant trade at the market was much restricted although a fair cut flower trade was done. No doubt the weather unfavorably affected the whole trade too, people did not turn out as they would if it had been fine and warm.

However, putting all things together, I should say that there were a great many more cut flowers sold than in former years, and that the plant trade was fully equal to the average. From what I can gather I should say that there was a slight falling off in church decorations. J. H. Dunlop says that the chief characteristics of his Easter business were the phenomenal sales of azaleas and rhododendrons and the increased demand for flowering plants of all kinds, but this may have been due to extensive advertising.

The supply of carnations was simply immense and the quality A1. Roses also were sent in in very large quantities and of the finest quality, there were none left over. Violets and valley sold together in large quantities, and daffs, tulips and mignonette were much in demand, and of these there was also a plentiful supply.

All the florists' windows had magnificent displays on Saturday morning, in the evening they looked as if a cyclone had been along. Prices ranged fair all along the line, nothing remarkable either way. One florist told me he had a very

large demand for Easter lilies and could not supply the demand, another told me he could have bought a lot more if he had wanted them. I saw very few left in the stores on Saturday night, and I don't think the growers have very many left over. Dunlop showed some very pretty white lilac, *Dentzia gracilis* and a few *Wistaria sinensis*; the latter was extremely "fetching."

At regular meeting of the Horticultural Society this week "Shade Trees" will be the special subject, and the next meeting (21st inst.) of the Gardeners' and Florists' Association will be specially devoted to "Carnations." Every one who has anything good in that line is requested to bring it down and let its merits be seen and discussed. Certificates of merit will be awarded to objects that may be considered worthy. E.

St. Louis.

Easter trade was fully up to the expectations of all the florists; the weather was most favorable to flower buyers. The bulk of the orders came in at the last moment, and compelled the majority of the florists to work half the night, and some all night, in order to get their orders in shape for delivery Sunday morning. Good roses were not over-plentiful, but of the poorer ones there was plenty. *Harrisii* were plentiful this season, the supply being slightly greater than the demand. They were sold for \$3 per dozen. Pots having from two to four flowers brought \$1, and with from 5 to 8 blooms were sold for \$2. Azaleas were in demand, bringing from \$1.50 to \$2. The general complaint this year was that hydrangeas were all behind in flower; the demand for them was good. The report is that this Easter more plants were sold than ever before. Violets were poor and scarce; the demand was greater than the supply. This was probably due to the warm weather just passed, which glutted the market at that time; they were offered at \$1 per 100. Carnations were not over-plentiful and were in great demand, the commission men asking as high as \$5 per 100 for the best, and \$3 for the poorer ones. All bulbous stuff was very plentiful, and generally speaking good in quality, and was in great demand.

The West End florists are very enthusiastic over their Easter business; the downtown florists—some are highly pleased, while others not so much. Altogether it is safe to say that the bulk of the business done was far in advance of any previous Easter week.

The majority of the florists had their windows handsomely decorated. Jordan Floral Co. had their large store decorated with hydrangeas, azaleas, palms, araucarias, *Harrisii* and a fine vase of Jacques.

Riessen Floral Co. had a fine display in both of their stores; hydrangeas, *Harrisii* and palms, with a fine assortment of cut flowers, made a most attractive display.

Ellison & Tesson made a fine display of American Beauties and other fine cut flowers.

In the West End F. C. Weber, Luther Armstrong, Ayres Floral Co. and Cannon Floral Co. made fine displays in their windows consisting of ribbons, plants of all kinds and a large assortment of cut flowers.

Trade has been good all along the line ever since Easter. The few flowers left on hand in the way of lilies and white flowers after Easter found ready sales the following day. Flowers will continue in good demand throughout the week. The

florists who had plants at the market all last week report that they sold more plants than ever before at this time of the year, 30% increase all around. Prices are a little stiff yet, but by the end of the week they will come down to about what they were a few days before Easter.

J. W. Steele & Co. of 4044 Olive street moved all their fixtures and stock out on Monday night and took them down to the auction house to be sold; some of our commission men are lamenting a loss in consequence.

Visitors this week were Simon Skidelsky of M. Rice & Co., Philadelphia, and H. P. Hagenholz, representing A. J. Kuyk, Hillegom, Holland.

E. W. Guy of Belleville, Ill., has gone to Cincinnati.

George Augermuller, bookkeeper for C. A. Kuehn, was married this week to one of our West End belles. His friends, who are very numerous among the florists wish him much joy and happiness.

The Florists' Club meeting this week, Thursday, was a rose meeting; a fine exhibition of roses was expected.

The florist bowlers on Monday went down to the alleys of the Magnolia Bowling Club, and were swamped completely, snowed under. The understanding was that the Magnolias were to respect the 56-foot line on their alleys and the 60-foot line on our alleys, but when the time came to roll they would not roll that way, so we allowed them to roll at a go as you please gait, and the florists toed the mark at this gait; they beat us by 1,437 pins, two of their men making 300 in a game, but I think the tables will be turned next Monday night when they have to respect the line. The boys had lots of fun, and those who attended enjoyed themselves. F. C. Weber was high man for the florists, and F. W. Meyer for the Magnolias. Emil Schray rolled the highest single game, 269 for the florists, and Mathie and Schnid each made 300 in a single game. J. J. B.

Boston.

Easter in Boston was memorable for three things, the very cold weather, the clean sweep on lilies and something akin to a revolt by the public against what they regarded as exorbitant prices on carnations. The weather was extremely cold and made transportation of plants especially hazardous. People who bought lilies at the department stores because they were cheap and then had them sent home by express must have come to the conclusion that they had made but a poor bargain on receiving the plants after they had made an afternoon trip exposed to the thrashing wind on top of an express wagon. The lilies in this market as a rule were longiflorums, short and tough, and but few tall *Harrisii* were seen. All indications pointed to a shortage early in the week, and when Saturday came predictions to this effect were verified. Everything that showed an open flower was eagerly snatched up and there might have been many more sold, a very different state of affairs from last year's experience when the overstock unsold was heavy. Prices were \$10 to \$12 per hundred on an average. Florists who paid these prices were naturally indignant when they found one of the cheap department stores selling good longiflorum plants at 10 cents per bloom retail. Vengeance was in the air and they are still looking for the individual who was responsible for the stock, but up to latest advices he remains undiscovered. Lilies led in plant sales everywhere. A fair number of azaleas and roses in bloom

were also sold, but lilies composed probably nine-tenths of the entire plant sales. *Spirea compacta* was offered in good shape but found little favor, and the plants were left over unsold.

The sensation of the cut flower trade was centered about the carnation. It was evident to all that the crop of carnations would be totally inadequate to the demands of an ordinary Easter. Prices went up early in the week and on Thursday reached high water mark, \$6 per hundred for good quality stock. On that day retailers were tumbling over one another in their eagerness to buy up for immediate use or to secure for Saturday a good supply. Honors were easy on Friday and on Saturday morning the growers had no difficulty in unloading their cut, which was really no larger than an average Saturday product, at stiff prices, though a trifle lower than on Thursday. This let the growers out of it nicely, but the stores did not fare so well, for the public, as though by previous understanding, gave the carnation a marble hand and Sunday found a large proportion of Saturday's flowers unsold and practically a dead loss. The bulb man, who has had a hard struggle during the winter, got the benefit of all this, as did also the violet man, both of these individuals having been trained down by misfortune so that they were willing to dispose of their stock at every day figures, and never thought of doubling prices because Easter was here. Roses experienced but slight advance above ordinary rates and sold steadily and well. In general, it was noted that colored flowers had the preference, and except in the case of lilies the old demand for white flowers for Easter use seems to have pretty well died out. Candidums were scarcely thought of. There were a few here and there and they did not average in size much larger than a common white azalea.

The wholesalers, while not experiencing any such demand from distant points as was the case a few years ago when long distance shipping was at its height, had every reason to feel satisfied with their business, both shipping and local, the only blot being their injudicious haste in gathering in carnations at top figures on Saturday morning.

At the meeting of the Gardeners' and Florists' Club on Tuesday evening, Prof. B. M. Watson of the Bussey Institution read a very interesting and instructive paper on "Effective Combinations and Arrangements of Plants in the Shrubbery and Garden." The audience, while not large, was most appreciative and the discussion which followed the reading of the paper showed how much interest is being developed in this subject, largely through the influence of such grand institution as the Bussey Institution and the Arnold Arboretum.

Lawrence Cotter was the recipient of a useful wedding present from his friends in the trade, a handsome dining room set.

Cleveland.

Easter developed a big lot of stock in the hands of the different growers. Everybody had a big supply in good variety and the result was a great display during the last half of the week; the only thing that did not appear largely seemed to be pink hydrangeas, which were not generally to be seen, although some few of the florists showed them. Outside of these, the supply seemed to be unlimited. Azaleas, *Harrisii*, genistas, spiraea, Dutch bulbs in pots and pans, daisies, rhododendrons, lilacs—everything

that even the most capricious taste could ask for, and which was at all available, the request would produce. The first half of the week was splendid as to weather, but the last half was different. It is very doubtful if April could bring worse weather than that which came during Thursday and Friday. It snowed and blew and froze miserably. It began early and hung on with the most determined pertinacity until well along into Saturday, and meantime the florists fumed and fretted over their beautiful displays. It was only with the greatest trouble and inconvenience that stuff could be moved during Friday, which was the worst of the three days, freezing as it did all day from four to seven or eight degrees with a raw wind that came out of the northeast in great gusts. This undoubtedly had a most unfavorable effect on buyers. Not only did it deter many from coming out, but those who did brave the storm, must have had their flower buying ardor grievously chilled. There was nothing whatever to suggest sunshine, spring and flowers. Saturday was somewhat better, as the wind had died down, although it remained cold and froze nearly all day—a circumstance that had a most discouraging effect upon those florists who do a market trade. Many of these did not get out until after noon and by that time all the best trade is over in the markets.

The stores report variously concerning Easter trade. Saturday was practically the only day in which buyers could get out at all comfortably, and the clear afternoon brought them out in large numbers. The result was that one or two stores had to lock their doors in the evening. These very fortunate parties should surely be well content, for not many are afflicted in that way. Some report a slight decrease in the amount of business compared with last year. With some there was an increase. But with many prices were a shade below last year, with an inclination on the part of buyers toward economy, a drift toward the cheaper class of stock. The broad general average would probably show no very great difference in the amount of stock disposed of. Prices on the whole were slightly lower. There was more stock left over by reason of the greater amount grown. Had the weather been good or even moderate there would probably have been a satisfactory gain over last in every respect. A.

Chicago.

While the Easter trade here was but little larger than that of last year it seems evident that there was an increase in the sale of plants at least, and all the retailers report excellent business. No excessive advance was made in the price of flowers, and the supply was pretty well up to the demand, except in carnations, which were short. Violets were quite plentiful and in very active demand, and bulb stock, which has been rather a glut of late, moved quite well.

The plant trade did not present any especially novel features. H. F. Halle found the strongest demand for azaleas and lilies, while cinerarias went off very slowly, being with him in less demand than last year. He obtained quite a large stock of fine pelargoniums, and these proved great favorites. Comparatively few foliage plants were sold. Mr. Halle had a lot of church decorations at Easter, and the past week brought him a good deal of decorative work.

At E. Wienhoeber's a similar activity in plant sales was noted. Here, as else-

where, lilies and azaleas led, but unlike Mr. Halle's experience, cinerarias sold well with Mr. Wienhoeber. A well-bloomed plant of good color could be sold for 35 cents, making a show unequalled by anything else for the same price. Pans of daffodils and jonquils also sold well. Singularly enough there was no call whatever for hydrangeas. Very handsome plants of pink Otaksa were to be seen, but people would not even ask the price, and they appeared entirely out of the running. Genista was hardly seen; it has never been a great favorite in the Chicago market, and rhododendrons also appear to have retired. Pot lilacs, though well-bloomed and handsome, seem losing ground in popular favor, and were less called for than in previous years.

Comparatively few baskets of plants were sold here, individual plants being preferred. There was an increase in the use of tissue paper and other decorations for the flower pots, and bulb pans so treated appeared to make a decided hit.

On the south side W. J. Smyth found business very active, there being a strong demand for cut flowers, particularly lilies, roses, carnations, violets and valley. Other bulb stock sold slowly, people making small purchases calling for roses or carnations, rather than the cheaper bulbous flowers. While the plant trade was certainly good, particularly the sales of lilies and azaleas, the heaviest purchases here were of cut flowers. On Saturday night, Easter Eve, Mr. Smyth had a large banquet decoration at the Calumet Club, calling for elaborate floral arrangement; it was certainly a particularly awkward date for a busy florist. Most of the fashionable florists say that many of their wealthiest customers were out of town, so that the usual orders from these sources were omitted; the fact that sales were up to previous years denotes an increase in the transient trade.

The wholesalers were kept very busy with both shipping and local trade, and with most of them it proved the biggest Easter on record. A great quantity of lilies was disposed of and although a lot were shipped in late from outside points the price held up, very few, if any, going below 10. In roses and carnations the only flowers that suffered were the inferior grades, first-class stock being sold readily. Bulb stock varied a good deal, still it was pretty well cleaned up. Quality of stock was usually good, but we hear the usual complaints of pickling.

This week we have experienced the usual drop. Beauties are \$8 to \$35, other roses \$3 to \$5, most of the good stock going at \$4, selected only at \$5. Carnations are \$1 to \$1.50, fancies \$2. Harrisii are \$6 to \$8, and callas wither away without purchasers. Sweet peas have made their appearance; Bassett & Washburn have received extra fine Blanche Ferry, Lottie Eckford and Emily Henderson from Mrs. Eaton of Lyons, Iowa. They sell for \$1.50 a hundred; good flowers, but with shorter stems sell for \$1. The antirrhinum, though very fine, sells but slowly.

We were more fortunate than our Eastern brethren in having fairly good weather Friday and Saturday before Easter; though chilly there was little wind, and sun enough to encourage flower buying. Since then cloudy weather and rain has made roses rather soft.

At the meeting of the Florists' Club last Thursday evening these was a discussion of the Easter trade, and of the outlook for spring business. From remarks made it is evident that what is known as the "geranium disease" is spreading. This is

caused by a worm that eats its way up through the stem, causing rot. No one seems to know of any effective means of combatting it.

At the next meeting steps will be taken to enable the retailers to secure mutual protection against dead-beat customers.

Mr. William Penn Nixon, editor of the *Inter Ocean*, has been appointed a commissioner of Lincoln Park, to succeed Andrew Crawford, resigned.

W. J. Smyth intends to move from his present location about May 1 into a store across the street, at the corner of 31st street and Michigan avenue. The premises will be decorated and fitted up in the most approved style, and will form a very desirable situation.

Recent visitors: H. J. Goemans, representing K. J. Kuyk, Hillegom, Holland; N. Dames, of Van der Horst & Dames, Heemstede, Holland.

Philadelphia.

Last Christmas the doors of the stores were thrown wide open and kept there; plants delivered without fear of even getting chilled. The tender palms mingled with the sturdy spruce in the decoration of the store fronts, and the genial atmosphere was likened to the balmy air of spring. How different the Easter just passed; Thursday, Friday and Saturday the thermometer hovered around the freezing point all day long and a biting wind coursed along the streets, making any display of plants impossible, in fact all stock sold, to insure its sale delivery, had to be wrapped up.

The small dealers and street men and the florists who with only a house or two sell their stock in the market or on the street were put in a bad way by the inclement weather. Many had stocked up in cellars and the like places, expecting to do their usual or even better business, and could not display their stock, as a few hours' exposure completely ruined it. The dealers on Market street on Saturday had a great time protecting their stock from the wind and the frost; they struggled under great difficulties all day, but after seven o'clock in the evening in the dim light the frozen to death lilies were cheerfully and quickly sold at a slight (?) reduction from store prices; none but an expert could decide that life was extinct until they taken into the house when the corpse thawed out, and the loving ones gathered round to celebrate the "wake" with tearful and disappointed faces.

Considering the adverse circumstances there was a good business done by all in the regular channels. Some azaleas were left over, but nearly all the other stock was cleared up. Lilies sold particularly well. The lily is the great Easter flower after all; many other kinds of plants are brought out from time to time, but the lily holds its own, and the demand this season was as good if not better than ever.

Large azaleas make a great show in the store, but the general public as a rule can not be made to buy them; \$5 is about the limit of the moving sizes, and the \$8, \$10 and \$15 specimens stand as if anchored. Pot lilacs and rhododendrons were quite plentiful, and moved off very well. There was plenty of *Spiraea compacta*, which sold well; the new *grandiflora* resembling the golden rod in form of flower did not seem to take, as it is not showy enough and lacks the generous foliage that makes the *spirea* such a perfect plant. Pans of hyacinths in solid colors sold well, especially when trimmed with crepe paper the same color as the flower; pots of daffodils

and small genistas, when decorated with yellow crepe, were very attractive and quick sellers. Many other plants were made more salable by the judicious use of this material and a little ribbon and gold and silver cord. Pasteboard covers to fit different sized plants and covered much the same way as the bare pots were prepared before the rush, and were used to good advantage when there was not time for decoration.

Cut blooms were not over-plentiful, carnations being particularly scarce, and commanded Christmas prices. Choice stock brought \$4, and anything fair brought \$3 per hundred; short whites sold for from \$2 to \$2.50. Roses were quite scarce, but prices did not advance but very little. The best teas brought \$10; Perles and like sorts sold at \$6; Beauties brought \$2 to \$5 per dozen; Brunners were in great demand at from \$4 to \$5 per dozen; Jacks went for \$15 to \$20, and were not very plentiful. Of bulbous stock there was enough for all, and some to spare. Valley, tulips and daffys brought 3 to 4. Smilax was scarce at 15 to 20.

Up until Saturday the business seemed to be disappointing, and storekeepers seemed worried, but when the last day arrived the customers fairly swarmed in, and it seemed almost impossible to wait on them. It's a great system that manages an Easter Saturday business satisfactorily. Robt. Craig said it's the same way every season. Thursday night of Easter week when he makes his annual tour of the stores he always finds the proprietors worried and afraid they have too much stock; they will never sell it, etc., etc., but he says Saturday night generally finds them with a different frame of mind and stock all gone.

The meeting of the Florists' Club Tuesday evening last was not very largely attended, but those not present missed a treat in not hearing Mr. J. Gardiner's very excellent paper on mushrooms. In the discussion Mr. Gardiner said that failure with mushrooms was caused mainly by the beds getting too warm and burning up. He said that there should be a gradual decomposition of the bed, and this was brought about by mixing the manure with the soil as the bed was prepared. A bed properly made generated a heat of between 80° to 90° and would produce mushrooms for six months, provided it was kept from draughts. Mushrooms needed plenty of fresh air from the top, but not from doors or bottom ventilators. To water a bed was almost sure to rot the young mushrooms and spoil the crop. He kept barrels of fresh manure standing about his house, and the free ammonia settled on the cold bed and helped the crop to a marked degree. He also made beds of fresh manure outside in an enclosure of boards, and covered the top with a thick layer of fine soil, and after the manure had heated for some time he took the soil and spread it about his house on the walks, not necessarily on the beds, and the crop was much benefited. The maggots were to come with warm weather, and there was nothing could be done to destroy or prevent them. When the bed was covered with small mushrooms that stood still and would not develop it was then they should be stimulated in some way as described above, but never watered, as that would kill them immediately; if moisture could be given them from below it would be all right, but not from above. Spawn when plantings should be placed about 16 inches apart each way, and then the temperature of the house kept up to 75° to 80°; this

would spread the mycelium quickly until the bed was covered, and then from 55° to 57° seemed to be the best to develop the mushrooms and keep up a continuous crop.

At the regular monthly shoot of the Gun Club last Wednesday the medal again changed hands; this time Ed Reid is custodian for the next two weeks, when he will no doubt have to defend it against the challenge of some envious brother member. In the regular shoot Mr. Harris, the holder, with a handicap of 8, made 24, and Mr. Reed, whose handicap was 4, made 24 in the shoot off; Mr. Reid won, 23, including his handicap, Mr. Harris losing by two points. The score of the entire team was as follows out of a possible fifty:

W. K. Harris	29	Thos. Cartledge	26
W. Parks	43	Geo. Anderson	43
M. L. Lindsay	25	Jno. Burton	37
C. D. Ball	32	A. B. Cartledge	36
Geo. Craig	29	Ed. Reid	39
W. P. Craig	34	Chas. Harris	28

K.

St. Paul.

Easter week brought a great variety of weather. On Monday it was warm and summer like; on Tuesday it rained, snowed, hailed, thundered and froze hard; on Wednesday and Thursday we had the best sleighing of the season, while Friday and Saturday were warm, bright and pleasant, causing the smiles to chase one another over the florists' faces.

Trade was very good. Had it not been for the weather the fore part of the week this Easter would have gone on record as the best known.

Stock in general was in good shape and delivered nicely. Lilies, azaleas, spiraeas, etc., were delivered Saturday in open rigs without wrapping. The supply of lilies and azaleas was not equal to the demand, and more good stock could have been disposed of.

In cut flowers, carnations, valley, violets and all bulbous stock was in good demand. Good roses sold fairly well, but the plant trade is rapidly getting away with the cut flowers at our spring holiday. There was no particular demand for crosses or set pieces, though a few of the churches asked for them.

Church decorations, while not elaborate, were numerous. Many of the churches have adopted the plan of giving away potted plants to the children, a very beautiful and appropriate custom, and one which the florists should encourage.

L. L. May & Co. had a very elaborate display of potted plants in their spacious store. A. S. Swanson had an extra store rented, which was well filled with blooming plants. Chris Hansen had a rented store filled with potted lilies. The smaller stores were well filled with choice stock, and Monday morning found nearly everything cleaned out.

Many of the stores throughout the city were beautiful with potted lilies, azaleas, etc., while one large clothing store sold potted plants along with neckties, fancy shirts and Easter hats. FELIX.

Baltimore.

The uncertainty of the week before Easter did not develop settled fine weather until Sunday. Thursday and Friday were both bad days. Saturday, though clear, was too cold and windy for blooming plants to be exposed on stalls in the open air without suffering more or less damage, and the same conditions made carrying the plants home by purchasers or delivery by vendors a very un-

pleasant task. The store man with the closed-in delivery wagon had all the advantages. Notwithstanding the trials to temper and plants in the markets an immense lot of blooming plants were disposed of at prices fairly up to usual Easter rates, and hundreds of people could be seen with heavy baskets of marketing on one arm and a battered Harrisii or withered calla plant held by the other, jogging homeward with contented faces.

Harrisii were fairly plentiful after all, the only regular stock at all hard to get being smilax, which is still very scarce. Hydrangeas were conspicuous by their absence, as were rhododendrons, but the noble plants of azaleas that were to be seen on every hand made amends, and were readily sold at good prices.

The store people made use of crepe paper and ribbon on plants to a considerable extent, and, tastefully put on, there can be no question of the very great improvement made in the looks of a plant by these simple helps. As with every other form of decoration the effect depends on the taste and skill of the user; here and there too much used or badly arranged, but generally a great improvement.

Church decorations were on the whole very pretty, though very much the same as last year. It is to be regretted that the ladies and gentlemen who have charge of these matters do not use more originality in their work, as, though confined to somewhat narrow limits in style and cost, yet by giving some florist their order a few months ahead a much greater range of form could be had. MACK.

Rochester, N. Y.

Our florist stores presented a most gorgeous appearance all through Easter week; great banks of blooming plants were to be seen everywhere, masses of lilies, azaleas and bulbous plants filled the show windows and the trade in this line was decidedly ahead of any former year. Never before was the supply of flowering stuff so large, nor of such excellent quality, as this season.

Lil. Harrisii and longiflorum however take the lead as an Easter plant; next to these pans of hyacinths, tulips and narcissus sold best, though the medium sized genistas and azaleas were also readily disposed of, very few of them being left over at any of the places.

Everybody had a hard time in delivering stuff, for the latter part of the week was decidedly cold, so all the plants had to be securely wrapped up and protected against freezing, which caused much extra work and anxiety among the storemen.

The sales of cut flowers were also very satisfactory, and the liberal supply was equal to the demand. Church decorations were rather more elaborate than formerly; in addition to the usual large palms, etc., a great many flowering plants were called for, especially the lilies of extra size, six or eight bulbs in a 10 or 12-inch pot with 20 to 30 flowers, also tall plants of genistas and white azaleas; cut flowers and smilax were used more profusely in many instances, which was a great help to the flower market, as the general public seems to prefer a well grown blooming plant to a box of cut flowers on this particular occasion.

Some of our older firms claim that the Easter trade of '96 has not been any better or even below that of former years, but when we consider the number of flower stores which opened within the

last few years in this comparatively small city and see the quantity of goods offered and disposed of, nor can deny the fact that the bulk of sales throughout the city has decidedly increased, even if the separate firms cannot record a growing trade, because five or six years ago we only had five or six stores, while at present there is a dozen or more of them, and if the older firms can hold their own with this lively competition they should not have any reason for complaining. J. B. K.

OBITUARY.

THOMAS ROBSON RENWICK, the pioneer florist of Grand Rapids Mich., died April 4 at his home in that city, aged 67 years.

He was born at Portage, N. Y., Oct. 18, 1828. When he was but 4 years of age his parents removed to Clinton, Mich., and in the 50's he located at Grand Rapids, where in 1854 he married Miss Julia Patterson.

Mr. Renwick first began the culture of fruits and flowers in Grand Rapids for the pleasure of himself and wife, and, indeed, at that time there could have been found no customers for the latter. Among the notable achievements of his early horticultural life was the dwarfing of peach trees, producing trees no more than two feet in height but bearing ten or a dozen peaches, and the fruiting of strawberries under glass in very early spring.

He saw the sale of cut flowers in this city start from a very small beginning and progress to its present large proportions, and though he had other large business interests the growing of plants and flowers was the profession he loved.

He was just and upright in all his dealings and was loved and respected by a host of friends. He leaves a widow and three children, the latter including Mr. Lauren N. Renwick, who has been the active manager of the business for years, and under whose management the business will be continued, jointly with the widow, who is the other executor of the will. The latter provides that the business shall be carried on as before for ten years after his death.

John A. Scollay, the well-known manufacturer of greenhouse boilers and of the Scollay sprinkler, died at his home in Brooklyn, N. Y., April 4, aged 69 years. He was born in Dundee, Scotland, and came to America 45 years ago. He leaves a widow, three sons and a daughter.

White Stanhopeas.

There are but twenty species or so of stanhopeas with well defined characters, yet these have had perhaps four times as many names applied to them. It is difficult to say which or how many of these may be retained as varietal names. About twenty have been introduced having more or less white in their make up, but those species affording the purest white forms, are *S. eburnea*, and *S. grandiflora*. JAMES MACPHERSON.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advts. not admitted under this head.

SITUATION WANTED—By a competent young man, single, steady and sober. Address ILLINOIS, care American Florist, Chicago.

SITUATION WANTED—By a first-class rose grower and propagator; single; 8 years' experience. Good references. J. L. care American Florist.

SITUATION WANTED—By a first-class competent S man as florist and gardener; private place in country. Address M P, care Am. Florist.

SITUATION WANTED—By a young German florist; 8 years' experience, and has first-class references. Address FLORIST, 120 Market St., Warren, Pa.

SITUATION WANTED—By a young florist in a rose growing establishment under foreman; steady and sober; single. Good references. Address J. W. S., care American Florist.

SITUATION WANTED—In store thoroughly reliable. First-class designer and decorator. Many years' experience. Address FLORIST, 1025 Forest Ave., E. Walnut Hills, Cincinnati, O.

SITUATION WANTED—As foreman; first-class grower of roses, carnations, mums, palms, ferns, etc.; age 28; 15 years' experience; first-class testimonials. H. W., care American Florist.

SITUATION WANTED—As working foreman, eleven years' experience in growing cut flowers and plants for wholesale and retail trade; all references. Address WORKING FOREMAN, care Am. Florist.

SITUATION WANTED—By all-round florist, eleven years' experience; good grower of roses, carnations, mums, violets and bedding plants; good propagator and design worker; best references. Address L. B., care American Florist.

SITUATION WANTED—By a thoroughly competent florist of 12 years' experience in cut flower growing. Expert rose grower and nurseryman. Will take charge of place. Steady, sober, and single. Address J. F., care American Florist, Chicago.

SITUATION WANTED—As working foreman; first-class grower of roses, carnations, violets, mums, palms, ferns and general greenhouse stock. First-class references; 24 years' experience; single. FOREMAN, 1019 Vine St., Philadelphia, Pa.

SITUATION WANTED—By thorough, practical florist and grower; commercial or gentleman's private place. No 1 rose grower. Carnations, violets a specialty. Good designer; age 36. Best references. Address W., 408 Lagonda Ave., Springfield, O.

SITUATION WANTED—A young Dutchman, bulb-grower's son, wishes to be placed in a nursery. Board and lodging and small salary expected. Advertiser has been working in a nursery in Germany during a year. Address J. G. KAT, Hillegom, Holland.

SITUATION WANTED—As foreman in a large commercial or private place. Well up in every branch (specially roses and other cut flowers), 22 years' experience; married; 36 years of age. State particulars and salary. Address ROSE GROWER, care American Florist, Chicago.

SITUATION WANTED—As foreman in commercial place to grow roses, carnations, chrysanthemums and general greenhouse stock first-class propagator, with an up-to-date business man and a christian; married, strictly sober and honest. Best references furnished. CHAS. MOSS, box 181, Knoxville, Tenn.

WANTED—Florist; German preferred. EDWIN EAGLE & Co., 70th & Adams Av., Chicago.

WANTED—Two or three young men as assistant rose growers. Address with references, BASSETT & WASHBURN, Hinsdale, Ill.

WANTED—To lease for a term of years greenhouses with some land attached; must be in or near Chicago. Address CLOSTON, care Am. Florist.

WANTED—A man who understands how to raise vegetables for home use, on a large farm. Address ELK VALLEY FARMING Co., Larimore, N. Dak.

WANTED—To lease an established florist business in a live city, doing a good trade, consisting of 3,000 to 4,000 feet of glass. Address A. B., care H. Waddington, Brantford, Ont.

WANTED—A good rose grower to take charge of section of greenhouses under foreman; single man preferred. Address REINBERG BROS., 51 Wabash Ave., Chicago.

WANTED—Information of the present whereabouts of Charles Brady; when last heard from he was working in Orange, N. J., in a private place. Send information to PATRICK O'MARA, 35 & 37 Cortlandt St., New York.

WANTED—At once, a single man; well up in growing roses and general greenhouse work. State age and experience. Must be a worker and of good manners. \$25 per month with board. Address with references, PRACTICAL, care Am. Florist.

FOR SALE—Three greenhouses with stock, and all belonging to it, very cheap. Address W. S. P., care American Florist.

FOR SALE—Florist business, 6 greenhouses, dwelling house, barn, wagons and stock, in good location; easy terms. Address B. A. L., 171 Broadway, Room 56, New York City.

FOR SALE—Five greenhouses, each 90 feet long; shed 12x51 with two living rooms, hot water; town 30,000 people, situated 1 1/2 miles from San Francisco; 30 trains daily; finest climate known. Address A. B., care American Florist.

FOR RENT—Eleven greenhouses all heated by low pressure steam; this is a good chance for a man to go in business with a small capital; write, information free; location good. Address HENRY MOORE, McLemore Ave., Memphis, Tenn.

FOR SALE—A good chance. The stock in our greenhouses at a low price, and will rent the houses at a low figure. The only greenhouses in town of 5,000. For a man with little money this is a good chance. Write quick. STAFFORD FLORIST Co., Stafford Springs, Conn.

ZANESVILLE, O.—Mr. John D. Imlay's spring exhibition at his store attracted a large number of visitors. He issued 800 cards of invitation. The display of plants and flowers was large and most artistically arranged. He reports business as excellent.

A DAISY THAT SELLS

25 rooted cuttings of my new yellow Marguerite for \$2, by mail.

Nice 2-inch pot plants, ready for shift, 10 for \$1. It is a pleasing shade of yellow, very floriferous, with a double row petals, and stems 8 to 10 inches long.

Brides and Bridesmaids, 2 1/4-inch pots, \$4 per 100.

Fishers in 2-inch, \$2 per 100.

ALL A1 STOCK.

Sample flowers mailed on receipt of 10c.

CASH WITH ORDER.

F. BURKI, Bellevue, Pa.

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address GEORGE WITTBOLD,

1708 N. Halsted St., CHICAGO.

PANSIES.

- - THE JENNINGS STRAIN - -

of finest American grown Pansies from cold frames, fine stocky plants grown 5 inches apart; will be in bud and bloom April 1st. Stock the finest.

Cash with	Price per	100.....	\$ 2 00
order.	" "	500.....	7 50
	" "	1000.....	15 00

E. B. JENNINGS, L. B. 254, Southport, Conn.,

— Grower of the finest strain of Pansies.

AZALEAS,
PALMS,
ARAUCARIAS,
BAYS,

SANDER,
Bruges,
BELGIUM.

Agent: A. DIMMOCK,

106 & 108 Liberty Street, NEW YORK.

SEND FOR SPECIAL OFFER.

Plant Auction.

SALES EVERY TUESDAY AND FRIDAY
THROUGHOUT THE SEASON.

A. & F. RÖLKER, Auctioneers.

106 Liberty Street, NEW YORK.

NEW CALIFORNIA CHRYSANTHEMUM

GOVERNOR BUDD

NOW READY. The Queen is justly pronounced the queen amongst mums. Governor Budd is identical in shape, size, and the finish of blooms; in growth it is also very similar. If anything, more vigorous and with stronger flower stems. It is only in color it differs from its parent The Queen, being of a lovely shade of lemon yellow. Certificate by the California State Florist Society. 50c each; \$5 per dozen. Cash with order.

J. A. CARBONE, West Berkeley, Cal.

CLEMATIS.

Two years, all large flowering, choice	
named, leading kinds.....	\$2.50 \$20.00
Strong, heavy plants.....	35c each, 4.00 30.00
Il. P. Roses, 2 years, 4-inch pots.....	1.50 10.00
Paeonies, named in 10 choice sorts.....	1.25 8.00
Daisies, Dbl. Eng. Snowcrest, Snowflake.....	.50 1.00

F. A. BALLER, BLOOMINGTON, ILL.

Milwaukee.

A floral war is on. The cause of the trouble in brief is this. H. O. Frank, who conducts a drug store in the Pabst building, the most prominent corner in the city, engaged Miss Amelia Carpenter, formerly with the Paris Floral Co., as clerk in his flower dept. she to take charge March 23. A. Foster, who had rented space in Mr. Frank's store, refused to be ousted by Mr. Frank, he securing an injunction against Mr. Frank restraining him from moving his goods. Mr. Frank retaliated with an injunction enjoining Foster from selling flowers in his store, which however, was dissolved by the judge the next day on account of the perishable nature of the goods. So in consequence of Mr. Frank being unable to remove Foster, both he and Miss Carpenter are doing business behind the same counter as two firms and prices were demoralized, as stock was sold below the wholesale prices. The store is crowded continually by buyers taking advantage of the floral war.

INCOG.

ROSES.

K. A. Victoria, per 100, \$4.00.
Albany, Cornelia Cook, Hermosa, C. Riza du Parc, Martha du Bourg, Meteor, Triumph de Pernet Pere, Bride, Bridesmaid, White La France, Striped La France, Gontier, La Princess Vera, Gen. Tartas, Safrano, Soupert, Henry Stanley, Mrs. Degraw, Devoniensis, M. Guillot, Crown Princess Victoria, \$3 per 100; \$27 per 1000.
Chas. Rovelli, Queen's Scarlet, Snowflake, Caroline Goodrich, Mary Washington, \$2.50 per 100.

Our selection from the above, in good assortment, per 1000 \$25.00.

H. P. and MOSS, suitable for 4 and 5-inch pots, dormant, per 100, \$6.00.

H. P., 2½-inch pots, dormant, strong, in good assortment, per 100, \$4.00.

THOS. A. McBETH, Springfield, O.

Rogers Park Floral Co.

GOOD FIRST-CLASS STOCK.

	In 2½-inch pots.	per 100	per 1000
Am. Beauties.....	\$5 00	\$40 00	
C. Testout.....	6 00	50 00	
Kaiserin Victoria.....	4 00	35 00	
La France.....	4 00	35 00	
Belle Siebrecht.....	6 00	50 00	
Bridesmaids.....	3 00	25 00	
Brides.....	3 00	25 00	
Perles.....	4 00	35 00	
Meteors.....	3 00	25 00	

Orders for less than 100 not accepted
Ready for shipment now.

Send Orders to 41 Wabash Ave., Chicago.

J. B. HEISS,

116 S. Main Street, DAYTON, O.

OFFERS THE FOLLOWING: Per 100 Per 1000

Am. Beauties.....	\$6.00	\$50.00
Bride.....	4 00	30 00
Bridesmaid.....	4 00	30 00
Kaiserin Victoria.....	5 00	40 00
La France.....	4 00	35 00
White La France.....	4 00	35 00
Catherine Mermet.....	3 00	25 00

All of above is fine, clean stock.

SMILAX..... 1.50 10.00

SWAINSONA..... 4.00 35.00

Cash must accompany order.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

REINBERG BROS.,

Offer the Following Stock for Spring Planting:

Roses in 2 1-2 inch pots.

	Per 100	Per 1000
AM. BEAUTIES.....	\$5.00	\$40.00
C. TESTOUT.....	4.00	35.00
KAISERIN VICTORIA.....	4.00	35.00
LA FRANCE.....	3.00	25.00
BELLE SIEBRECHT.....	6.00	50.00
BRIDESMAID.....	3.00	25.00
BRIDES.....	3.00	25.00
GOLDEN GATE.....	5.00	
METEORS.....	3.00	25.00

Orders for less than 50 of any one variety not accepted. READY FOR SHIPMENT.

Send orders to 51 Wabash Ave., CHICAGO, ILL.

ROSES.

Ready for immediate shipment; extra strong and clean; from 2 1-2 in. pots.

CLOTHILDE SOUPERT,
THE NEW PINK SOUPERT,
PERLES,
LA FRANCE,
BRIDES,
SUNSET,
BRIDESMAID,

BEDDING ROSES in 20 varieties, our selection, per 100, \$3.00.

CARNATIONS—ROSE QUEEN and ALASKA, from soil, per 100, \$1.00.

WILLIAM SCOTT, per 100, \$2.00; per 1000, \$15.00.

GREENHOUSES, WESTERN SPRINGS, ILL. VAUGHAN'S SEED STORE, 84 & 86 RANDOLPH STREET, CHICAGO.

ROSES

BEAUTIES, MERMETS, CUSINS, TESTOUTS, NIPHETOS, PERLES, BRIDES, BRIDESMAIDS, METEOR, HOSTE, LA FRANCE, WOOTTON, WATTEVILLES, AUG. VICTORIA. Rooted Cuttings. Cash with order. Owing to number booked, they will be executed in rotation to assure prompt delivery. Order early.

Address for quotations. VILLA LORRAINE ROSERIES, MADISON, NEW JERSEY.

NOW

is a good time to secure a strong healthy stock of the

CELEBRATED NEW ROSE

MRS. PIERPONT MORGAN

which has unmistakably grown in popularity as the season advanced.

Prices for strong plants ready for immediate delivery are as follows:

From 2-inch pots.....	per 100.	\$125.00
" " ".....	per 500	65.00
" " ".....	per 100	15.00
" " ".....	per 50	8.00
From 3-inch pots.....	per 100	18.00
" " ".....	per 50	10.00
" " ".....	per 12	2.50

Money Order Office,
Station H, Phila. EDWIN LONSDALE,
Wyndmoor, Chestnut Hill, Phila.

Home of the Queen of Roses.

BELLE SIEBRECHT.

READY APRIL 1st.

Send in your orders early; the demand is great.
The finest pink ROSE ever introduced.

2-inch pots.	\$12.00 per 100
2-inch pots.	55.00 per 500
2-inch pots.	100.00 per 1000
3-inch pots.	18.00 per 100

NOTICE:—All orders filled in strict rotation.

SIEBRECHT & WADLEY,
Rose Hill Nurseries, NEW ROCHELLE, N. Y.

A FINE LOT OF

Meteors,
American Beauties
and Perles,

Now ready, in 2 inch pots. Write for sample and prices to

GEO. A. KUHLE, Pekin, Ill.

Rooted Carnation Cuttings.

	Per 100	Per 1000
WM. SCOTT.....	\$1.25	\$10.00
ALBERTINI.....	1.25	10 00
STORM KING.....	3.00	25 00
LIZZIE GILBERT.....	3.00	25 00
TIDAL WAVE.....	1.00	8 00
DAYBREAK.....	1.00	8 00
PORTIA.....	1 00	8 00
NANCY HANKS.....	1.00	8 00
LIZZIE MCGOWAN.....	1.00	8 00
UNCLE JOHN.....	1.00	8 00
SILVER SPRAY.....	1.00	8 00

Free of rust. Ready for immediate shipment.
Orders for less than 100 of any one variety not accepted.

\$4.00 PER 100.

Write for prices on large lots.

BRIDESMAIDS.

My young plants are very fine.

SO, ALSO
ARE MY

METEORS.

Please write, stating just how many
you want, and I will quote
you a bargain.

FRANK L. MOORE,

Originator of the BRIDESMAID Rose,

CHATHAM, NEW JERSEY.

ROSES. NOW READY.

First-Class Stock, 2½-inch pots.

	Per 100	Per 1000
BEAUTIES.....	\$4 50	\$40 00
PERLES.....	3 50	30 00
METEORS.....	3 00	25 00
BRIDES.....	3 00	25 00
BRIDESMAIDS.....	3 00	25 00
WOOTTONS.....	3 00	25 00

A. G. PRINCE & CO.,

41 Wabash Ave., CHICAGO.

Roses.

BRIDES, BRIDESMAIDS and MERMETS,
\$3.50 per 100; \$30.00 per 1000.

AMERICAN BEAUTIES, \$5.00 per 100; \$40.00 per 1000 Strong, healthy stock. 25 at 100, and 250 at 1000 rates. Cash with order.

R. F. TESSON,

West Forest Park, ST. LOUIS, MO.



Half the mushroom growers of the country get their mushroom spawn from Watson, Philadelphia. Why? Because it's always fresh, full spawned and can be relied on to produce a good crop; and the price is only \$6.50 per 100 lbs.; and none better anywhere at any price. And he sells the crop for his customers when desired. Prices realized last week, 50 and 55 cts. per pound, wholesale.

G. C. WATSON,
43 N. 10th St., Philadelphia, Pa.

SALE OF ORCHIDS.

By order of J. EYERMAN, Esq.

Messrs. A. & F. ROLKER will sell by auction at their rooms, **106 and 108 Liberty St., New York, on Thursday, April 23,** at 11 a. m., a part of the celebrated Oakhurst Collection of established

ORCHIDS,

including Veitch's *Lælia Callistoglossa*, *Cattleya Trianae alba*, *Cypripediums Morganiae*, *Arthurianum*, *Michochilum*, *Exul*, *Calypso*, *Leeanum Superbum*, *Mrs. Canham*, *Præstans*, *La Forcadei*, *Aurorum*, *Euryandrum*, *Chamberlainianum*, and others. The unique *Cattleya Schroderae alba*, *Dendrobium nobile nobilius*, and a large number of specimen plants of *Cattleya*, *Cymbidium*, *Cœlogyne*, *Cypripedium*, etc.

P

PALM

Seed.

NOW ON HAND
FRESH CROP.

<i>Chamerops excelsa</i>	50c lb.	\$0.50	per 100	per 1000
<i>canariensis</i>	50c lb.	\$0.50		\$3.50
<i>elegans</i>	60c lb.			
<i>robusta</i>	75c lb.			
<i>Erythea Arnata</i>	1.50	12.50		
<i>dulcis</i>	1.50	12.50		
<i>Latania borbonica</i>	.35	2.50		
<i>Phoenix leonensis</i>	1.00	8.50		
<i>reclinata</i>	1.00	8.50		
<i>rupicola</i>	1.00	8.50		
<i>slamensis</i>	1.00	7.50		
<i>Sabal Blackburniana</i>	1.00	8.50		
<i>serrulata</i>	.50	4.00		
<i>Washingtonia filifera</i>	.25	2.00		
<i>robinia</i>	.35	3.00		

A full list on application.

J. L. SCHILLER, Rutherford, N. J.

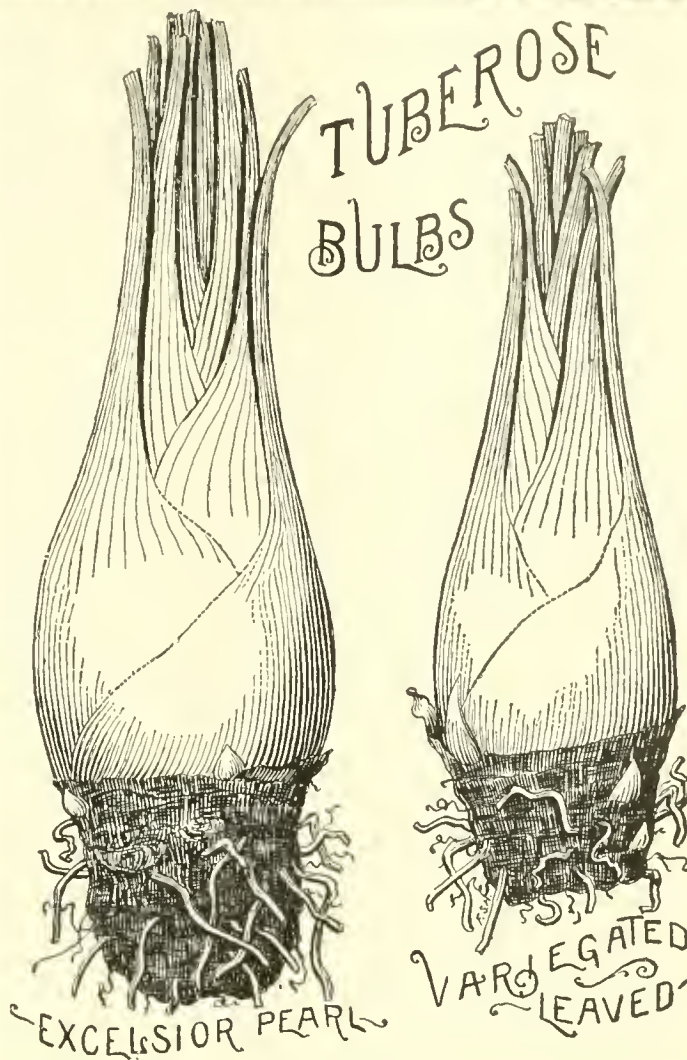
CLEMATIS

Jackmanni, and all large flowering varieties, \$17 per 100

Rhododendrons, Snowball, H. P. Roses, Azaleas, Tree Roses, Pæonia Chinensis, Tree Pæonia, Double Flowering Cratægus vars., Lilacs, Hydrangea, Magnolia with buds, Etc., Etc.

ASK FOR PRICES.

L. C. BOBBINK, RUTHERFORD, N. J.
Branch of the Horticultural Co., Boskoop, Holland.



Southern grown, bright and handsome; in perfect condition and pure and true to name. The average sizes are accurately shown above.

Excelsior Pearl, \$1.00 per 100; \$8.00 per 1000.

Variegated-leaved, \$1.25 per 100; \$9.00 per 1000.

Caladium esculentum, 6 to 8 in. cir., \$3.50 per 100; 8 to 10 in. cir., \$5.00 per 100; 10 to 12 in. cir., \$7.00 per 100.

Oxalis Deppei, 20c. per 100; \$1.20 per 1000.

Oxalis Lasandria, 25c. per 100; \$1.40 per 1000.

Gladiolus, mixed colors, 1st size, 75c. per 100; \$5.00 per 1000.

Gladiolus, mixed colors, 2d size, 50c. per 100; \$3.50 per 1000.

THE LOVETT CO., LITTLE SILVER, N. J.

NEW LATE PINK FRANCIS B. HAYES CHRYSANTHEMUM

JAMES COMLEY, Originator, says:

"I have seen, grown, and watched the **FRANCIS B. HAYES** Chrysanthemum for two years. I think it one of the best ever raised in this country, and is a chrysanthemum that every grower ought to have."

WILLIAM J. MARTIN, says:

"I have found the **FRANCIS B. HAYES** to be a remarkable variety of dwarf, robust habit, short jointed, with large dark green foliage well up to the flower. The flower is an ideal bloom and of a beautiful glistening pink of large size and a perfectly incurved, in the style of Major Bonnaillon; of excellent keeping qualities; time of flowering late. It would be impossible for me to recommend it too highly for private or commercial use."

Awarded Certificates of Merit by N. C. S., November 17, 1894; Massachusetts Horticultural Society, November 17, 1894, and N. Y. F. C., November 25, 1895.

\$4.00 per dozen; \$25.00 per 100. Ready May 1, 1896.

F. MACRAE, 1138 Smith Street, PROVIDENCE, R. I.

Must be Cleared.

Two year old plants in best double white and red **PYRETHRUMS**. Also three year old plants of **LYCHNIS CHALCEDONICA** fl. pl., and **L. ROSEA** fl. pl., as ground must be cleared. No reasonable offer will be refused. Address

FRANK J. MUNT, LeRoy, N. Y.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the **American Florist**.

THE AMERICAN FLORIST

Subscription \$4.00 a Year. To Europe, \$2.00.
Subscriptions accepted only from those
in the trade.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
wares pertaining to those lines ONLY. Please to
remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure
insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

IN THE adv. of Mr. T. W. Breen, page
932 of our spring number March 21, the
price of his finger spades should have been
70 cents a dozen instead of 75 cents.

BULLETIN III of the Cornell Agricultural
Experimental Station, horticultural
division, is devoted to sweet peas, being
a record of detailed culture by Prof. L. H.
Bailey and Mr. A. P. Wyman. It is freely
illustrated.

IN THE article on the florist trade in St.
Petersburg published in our issue of
February 15, the types made the writer
say "the papers issued in Europe are
poorly equipped" etc., when it should
have read "the papers issued in Russia."

A PHOTOGRAPH of his house of Emma
Wocher carnations is sent us by Mr. R.
Witterstatter, Sedamsville, Cincinnati,
O. As seen in the picture the habit of
this new carnation is certainly excellent
and the plants bear a fine crop of flowers.

MESSRS. JOHN BREITMEYER & SON,
Detroit, Mich., send us some handsome
blooms of their Mayor Pingree carnation
with strong stems 30 inches long, and
blandly inquire if the stems are long and
strong enough. Yes, gentlemen, we think
they leave nothing to be desired in those
respects. The flowers are good too. If
constitution and free-flowering qualities
are all right you have a carnation that
will be a seller.

ORCHIDS OUR SPECIALTY.

THE FINEST STOCK AND SE-
LECTION IN THE WORLD.

New and Rare Plants for the Stove, Green-
house and Conservatory.

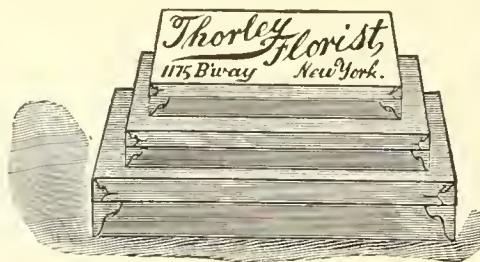
SANDER, St. Albans, England,
& Bruges, Belgium.
A. DIMMOCK, Agent, care Rolker's Auction Rooms, 106
and 108 Liberty Street, New York City
Send for catalogue.

WISCONSIN FLOWER EXCHANGE,
CUT FLOWERS,
Palms, Ferns and Growers' Stock.
FLORAL ARRANGEMENTS, STORAGE
AND COMMISSION.

Box 87. MILWAUKEE, WIS.

MILLANG & WINES,
WHOLESALE FLORISTS,
501 Sixth Avenue,
CORNER 30TH ST., NEW YORK.
Consignments Solicited.

Please mention the American Flo-
rist every time you write any of the
advertisers on this page.



The boxes as they appear when set up for use.

We make them in a sufficient number of sizes, including for violets, to meet all necessary requirements.

THE NATIONAL FOLDING BOX & PAPER CO.,

NEW YORK SALESROOM:
132 & 134 Franklin Street.

315--325 Congress Ave., NEW HAVEN, CONN.



W. ELLISON,
WHOLESALE
Cut Flowers & Florists' Supplies
WIRE DESIGNS.
1402 PINE STREET.
St. Louis, Mo.

C. A. KUEHN,
(Successor to ELLISON & KUEHN.)
Wholesale Florist,
1122 PINE STREET,
ST. LOUIS, MO.
A complete line of Wire Designs.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS.
Cincinnati, O.

The Boston Flower Market
is prepared to purchase, on order, and
ship Trade orders for Cut Flowers at
prices ruling in the market on day of
sale. TERMS STRICTLY CASH.
Address **WM. J. KENNEDY, Mgr.,**
Flower Market, Park St., BOSTON, MASS.
Long Distance Telephone "Haymarket 633."

DAN'L B. LONG,
FLOWERS AT WHOLESALE.
Strictly Commission Business.
SUPPLIES, ETC.
LISTS FREE. **BUFFALO, N. Y.**

A. & F. RÖLKER,
Down-town Wholesale Florists,
106 & 108 Liberty Street (Basement).
NEW YORK.

PLEASE mention the AMERICAN FLORIST
every time you write to an advertiser.

"The National"

Folding Flower Boxes are the best
and most convenient ever put upon
the market. They are made from
board, manufactured especially for
these goods, and made so as to resist
moisture, thereby keeping the flow-
ers fresh, and the box holding its
shape.

**THE NEW YORK
CUT FLOWER CO.,**

119 and 121 W. 23rd St., and
112 and 114 W. 24th Street,

**IS NOW
OPEN FOR BUSINESS.**

The Largest Dealers in

**CUT FLOWERS
IN THE WORLD.**

Handling flowers of all kinds in quantity
we are in a position to fill shipping orders
promptly. We shall give careful attention
to this branch of the business, and solicit
your patronage.

**WHOLESALE
FLORISTS**
JOEBERS IN
FLORISTS'
SUPPLIES,
FLORISTS'
VASES.

METS,
BRIDES,
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.

84 Hawley Street,
BOSTON, MASS.
HORTICULTURAL AUCTIONEERS.
Always mention American Florist.

WELCH BROS.,
Wholesale Florists,

Nº. 2 BEACON STREET,
Near Tremont St., **BOSTON, MASS.**

Asparagus Plumosus Nanus.
Cut Strings, 8 to 10 feet long,
50 CENTS.

W. H. ELLIOTT, Brighton, Mass.
SAMUEL S. PENNOCK,
Wholesale Florist
1612 & 1614 BARKER STREET,
Bet. Market & Chestnut, **PHILADELPHIA, PA.**

The Seed Trade.

AMERICAN SEED TRADE ASSOCIATION.

S. E. BRIGGS, Pres.; T. W. WOOD, 1st Vice-Pres.; ALEX. RODGERS, 2nd Vice-Pres.; A. L. DON, 114 Chambers St., New York, Sec'y and Treas. The fourteenth annual meeting will be held at Niagara Falls, N. Y., June 9 to 11, 1896.

MR. J. J. H. GREGORY has been quite ill with bilious fever.

FRANK T. EMERSON has been ill for a few days while visiting friends near Boston.

VISITED NEW YORK: William Meggat, Rogers Bros., A. Outram, W. B. Hoyt, W. G. Langbridge.

UNSEASONABLE WEATHER for the seed trade continues. A summary of March business shows it to have been the poorest known for many years.

ST. PAUL.—L. L. May has returned from his trip to Washington. He feels quite fortunate in securing a small slice of the government pie, while so many unfortunates didn't get a taste. E. S. Harnden, who has been with L. L. May & Co. in their wholesale seed department, has returned to his old position at Washington. FELIX.

Sweet Potato Plants.

Will some reader of the FLORIST kindly give me information about raising sweet potato plants? Does it require a new hotbed, or will one that is half spent do? When must they be started to have plants by May 10? How many potatoes will it take to make 2,000 to 3,000 plants? I have quite a vegetable plant trade, and have had calls for sweet potato plants the past two seasons, and as I don't know anything about growing them, I thought perhaps some of the FLORIST readers could give the desired information. X. X.

Greenhouse Building.

Madison, N. J., Jas. Hart, 600 running feet of rose houses.

Groveland, Mass., Wm. Ferguson, range of commercial houses.

Thompsonville, Conn., Wm. Brainerd, one commercial house.

A SMALL STOCK ONLY.

Now on Hand:

DOUBLE PEARL TUBEROSES, large size, good quality, solid and well ripened, \$1.50 per 100; \$10 per 1000.

(250 at 1000 rate.)

Large No. 2 Bulbs, 75c. per 100; \$5.00 per 1000.

GLADIOLUS, CALADIUMS, AND OTHER BULB STOCK.

CATALOGUE FREE.

DAN'L B. LONG, Jobbing Florist, BUFFALO, N. Y.

SEEDS ... FOR THE ... Garden and Farm

Vegetable and Flower Seeds. All the newest and best varieties—quality unsurpassed. Illustrated Catalogue FREE. WEEBER & DON, Seed Merchants and Growers, 114 Chambers St., New York City.

Always mention the American Florist when writing to advertisers.

April 16th.

April 16th.

GREAT AUCTION SALE OF FLORISTS' ORCHIDS

FROM

F. SANDER & CO., ST. ALBANS, ENGLAND, and BRUGES, BELGIUM,

THE LARGEST IMPORTERS AND CROWERS IN THE WORLD.

Consisting of 500 plants of the long lost and beautiful

CYPRIPEDIUM MASTERSIANUM.

In splendid condition. It is large flowering, free growing. The finest for cutting, and of great durability. Large importations in excellent condition of

Cattleya Trianae, Cattleya labiata,

DENDROBIUMS WARDIANUM and FORMOSUM GIGANTEUM. Also a superb snow white Orchid producing stems two feet high.

HABENARIA SUSANNÆ.

The above, together with many other Orchids will be sold by

A. & F. RÖLKER, AUCTIONEERS,

106 & 108 Liberty St., NEW YORK,

ON APRIL 16, AT 11 O'CLOCK A. M.

Send for Illustrated Catalogue, now ready.

VAN ZANTEN & CO.

HILLEGOM, near Haarlem, HOLLAND,

Headquarters for High-grade Dutch Bulbs.

Finest and Largest Stock of best Forcing Bulbs. Prices very low for First Quality.

Ask for Wholesale Price List to

MR. S. ASCHER, 16 and 18 Exchange Place, NEW YORK.

WHOLESALE ORDERS FOR DUTCH BULBS

BOOKED FOR THE

General Bulb Company,

Vogelenzang (Holland), by

AUG. RHOTERT, Sole Agent, 26 Barclay Street, N. Y.

PLEASE APPLY FOR CATALOGUE AND TERMS.

Mammoth Verbenas.

New, large-flowered, very fine quality. Per Ounce, \$1.50.

CHOICE FLOWER SEEDS For Florists.

Price List free on application.

HERRMANN'S SEED STORE,

413 E. 34TH STREET,

Near Long Island Ferry, NEW YORK.



TOKIO NURSERIES,

HEADQUARTERS FOR.....

Japan Lilies, Plants, Seeds ETC.

Write for Catalogue.

TOKIO NURSERIES

KOMAGOME,

TOKIO, JAPAN.

Cable Address: "NURSERIES, TOKIO."

Mention American Florist.

NEW BISMARCK APPLES.

1 and 2 years old.

CH. KOEHLER, Five Points Nursery, Oxford Church P. O., Phila., Pa.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.



YES! UP TO DATE SEEDS,

AND NO OTHERS.

	Trade Pkt.	Oz.
CENTAUREA GYMNOCARPA	\$0.15	\$0.40
COBÆA SCANDENS	.15	.35
COSMOS, Mixed	.15	.40
MIGNONETTE MACHET	.10	.50
ASTERS , Select Florist's stock. Victoria mixed.....	.50	3.00
MUSA ENSETE , 10 seeds, 25 cts.; 100 seeds, \$1.50.		

WM. H. ELLIOTT & SONS, New York.



N. DAMES,
OF THE FIRM
Van der Horst & Dames,
(Formerly G. VAN DER HORST & CO.)

BULB GROWERS,
Heemstede, Lisse, Holland,

is on his round trip in America. To save time, we beg to address all letters up to May 1st, care of Knauth, Nachod & Kuhne, 13 William St., New York. Our motto is "Fine stuff makes cheap prices." Our dealings in America is increasing every year. Write at once for quotations. *Yours truly,* **N. DAMES,**
Of VAN DER HORST & DAMES.

VAN ZANTEN BROTHERS,

Hillegom, Holland.

Extra quality of **HIGH GRADE FORCING BULBS AT LOW PRICES.** We now book orders for **Azalea Indica, Palms, etc.** The largest collection of sundry bulbs and plants.
APPLY FOR WHOLESALE CATALOGUE.

BURPEE'S SEEDS, PHILADELPHIA.

A postal card addressed as above will bring **BURPEE'S FARM ANNUAL** for 1896 if you intend to purchase **Cupid** or any Seeds. Otherwise the price is ten cents (less than cost in quarter-million editions). A bright **BOOK** of 184 pages.

NORTHROP, BRASLAN, GOODWIN CO.

Being **GROWERS** we are in a position to supply **Seeds of First-Class Quality** and to make **especially low prices.** A trial will convince those who have not yet found this out.

NORTHROP, BRASLAN, GOODWIN CO.

20 to 28 Hennepin Ave., MINNEAPOLIS, MINN.

55, 57 & 59 N. Jefferson St., CHICAGO.

WE ARE HEADQUARTERS ON

BULBS FOR FORCING, FLOWER SEEDS FOR FLORISTS ENGLISH MUSHROOM SPAWN.

Special prices on application.

JOHN GARDINER & CO., Seedsmen,
631 Market St., Philadelphia, Pa.

C. H. JOOSTEN, Importer,
36 Dey Street, NEW YORK.

SPECIALTIES:
Bulbs, Azalea Indica, Palms, Roses,
and all kinds of Nursery and
Fruit Tree Stocks.
Catalogues on application.

Try **VAN ZONNEVELD BROS. & CO.'S**
SASSENHEIM, HOLLAND,
Hyacinths, Tulips, Crocus, Daffodils, and other bulbs.
They are strictly first-class and cheap. Special quotations for Wholesale Importers.
Address all correspondence until May 1st to
W. VAN ZONNEVELD,
care J. W. Hampton, Jr. & Co., 41 Broadway, New York.

NEW BRANCHING ASTERS.

VICK'S WHITE BRANCHING.....	per oz.	\$2.00
" PURPLE	"	1.50
" ROSE	"	1.50
" SEMPLE'S PINK	"	.75
ZIRNGIEBEL'S DOUBLE WHITE.....	"	1.50

Trade packet of any of the above, 25 cts., or the set of five varieties, one trade pkt. or each, \$1.00.
Write for our Catalogue.

VICK & HILL CO., Rochester, N. Y.

ALWAYS mention the **AMERICAN FLORIST** when writing to advertisers.

Florists' Sweet Peas



New Sweet Pea "America"

Is more distinct and striking than any other variegated Sweet Pea in existence, and is of the large flowering type. Its color is a white ground and through the center of the standard is a white carnine scarlet blotch veined with fine scarlet lines running toward the edges and showing in the same manner on the wings. The dashing contrast of the heavy scarlet blotch on the white ground makes the blossoms very effective in a mass of cut bloom or when flowering in the garden. It is indispensable for any complete collection of colors in Sweet Peas. Pkt., 15c; 2 for 25c; 5 for 60c; 10 pkts., \$1.00; 100 pkts., \$7.50.

BLUSHING BEAUTY, clear "Daybreak" pink, largest size. Oz. 5c; 1-4 lb. 12c; 1b. 35c; 5 lbs. \$1.50.

COUNTRESS OF RADNOR, clear lavender, very large flower. Oz. 5c; 1-4 lb. 15c; 1b. 45c.

EMILY HENDERSON, pure white, large early. Oz. 5c; 1-4 lb. 12c; 1b. 35c; 5 lbs. \$1.50.

HER MAJESTY, clear bright rose, very fine flower. Oz. 7c; 1-4 lb. 15c; 1b. 45c.

FIREFLY, brightest fiery scarlet, large. Oz. 10c; 1-4 lb. 20c; 1b. 60c.

MRS. ECKFORD, best large yellow. Oz. 7c; 1-4 lb. 18c; 1b. 55c.

MRS. SANKEY, large, white. Oz. 5c; 1-4 lb. 15c; 1b. 40c; 5 lbs. \$1.75.

INVINCIBLE CARMINE, deep crimson scarlet. Oz. 6c; 1-4 lb. 12c; 1b. 35c.

TRUE LOTTIE ECKFORD, white, blue edge, large. Oz. 5c; 1-4 lb. 15c; 1b. 40c; 5 lbs. \$1.75.

For other varieties see our "Book for Florists," sent free to florists.

VAUGHAN'S PRIZE MIXTURE SWEET PEAS, 10 lbs. \$7.00; 1b. 80c; 1-4 lb. 25c; oz. 15c.

ECKFORD MIXTURE, 10 lbs. \$5.00; 1b. 60c; 1-4 lb. 20c; oz. 10c.

Florists' Forcing Mixture, 1b. 60c; 1-4 lb. 20c; oz. 10c.

ALL COLORS MIXED, 10 lbs. \$2.50; 1b. 30c; oz. 5c.

If to go by mail, add 8 cts. per pound to above prices.

VAUGHAN'S SEED STORE,

NEW YORK:
26 Barclay St.

CHICAGO:
84 Randolph St.

California Grown FLOWER SEEDS.

INGLESIDE NURSERIES,

F. EDWARD GRAY, Proprietor,
ALHAMBRA, CALIFORNIA.

I have a small surplus of 1895 grown seed, such as Sweet Peas, Cosmos, Petunia, Chrysanthemum, Zinnia, Aster, Mignonette, Canna, Coreopsis, Gypsophila, etc.

Send for list and prices.

Bulbous Begonias.

LAING'S STRAIN. In separate colors.
Lilium Longiflorum, Tuberoses, Spiræas,
etc. Now on hand.

Ask for prices.

HULSEBOSCH BROS., Englewood, N. J.

PLEASE mention the **AMERICAN FLORIST** every time you write to an advertiser.

Montreal.

The snow has at last shown an inclination to move; a thaw set in on the 29th and it is to be hoped that it will continue until we get a glimpse of mother earth once more; even at this date there is fully three feet of snow on the middle of some of the narrow streets, while the curb stones are hidden with over five feet of the beautiful; some of the country roads are practically impassable now since the thaw commenced, the snow not being packed, it all having fallen within a month.

The all absorbing topic in florist circles the past couple of weeks is the famous suit "W. B. Davidson & Sons versus the Queen;" it is to procure payment for flowers supplied by the suppliant on the occasion of the funeral of the late Hon. John Thompson, premier of Canada, which took place at Halifax, N. S., in December, 1894.

The order was given to Mr. Davidson by the Dominion Government and on receiving the bill a few weeks after they considered it excessive and asked for details, which was presented in due time as follows:

2,000 roses at 30 cents	600 00
400 carnations 10 cents	400 00
3,000 ferns 2 1/2 cents	75 00
500 Lilium Harrisii 37 1/2 cents	177 50
3,000 Roman hyacinths 5 cents	150 00
1,000 yards smilax 25	250 00
125 paper white narcissus	11 50
Boxes for designs	25 00
Wire designs	50 00
Bearer for designs	36 00
Time and expense	100 00
Express charges	50 00

Total 1,925 00

But even this did not satisfy the department, it was decided that the quantities were excessive also the prices too high, so it was decided to tender Mr. Davidson \$900 to settle; the amount was received and a receipt on account returned and a suit taken to recover the balance of \$1,025.

Almost every florist in the city was in attendance at the summons of either one party or the other. The Government submitted photographs of the work and Mr. Davidson a section of a wreath a foot long and twelve inches wide, which was supposed to truly represent the proportions of any of seven wreaths varying from 22 inches to 30 inches in diameter which formed part of the design. The hearing of the witnesses was concluded last Friday at Montreal but the argument of counsel will take place at Ottawa before Judge Burbridge of the Exchequer Court.

Florist A. Martin suffered considerable damage from a fire which broke out in the boiler room of his St. Catherine street greenhouses; a quantity of Easter stock, such as spiraeas, pans of tulips, hyacinths, etc., as well as a number of palms and other decorative plants were destroyed. He places his loss at about \$1,300; fortunately it is fully covered by insurance. BEAVER.

Fine Anthemis coronaria superba fl. pl.
\$2 50 per 100.

3 1/2 inch pot **ROSES**, our selection,
\$5.00 per 100.

Write for prices on anything you want.

NATIONAL PLANT CO.,
DAYTON, OHIO.

When writing to any of the advertisers on this page please mention the American Florist.

IVORY!

THE GREAT SUCCESS!

NOTHING IS IN MORE UNIVERSAL DEMAND BY FLORISTS THAN A GOOD, PRODUCTIVE WHITE CARNATION.

In **IVORY** you will have it. Try it and you will have a money maker. It produces as many blooms as Wm. Scott, is as perfect in form as any Carnation yet produced, held by a calyx that never bursts and carried on a long, wiry stem. What more do you want?

Fine plants from soil. \$10 per 100; \$75 per 1000. Stock ready now.

Also fine stock of *all the other leading varieties*. SEND FOR PRICE LIST.

GEO. HANCOCK & SON, Grand Haven, Mich.

HERR'S CARNATIONS.

ROOTED CUTTINGS that will give good results, because they are taken from healthy stock, and will be well rooted when sent out.

VARIETIES:

McGOWAN,
STORM KING,
ALASKA,
ANNIE LONSDALE,
IVORY,

DAYBREAK,
SCOTT,
ROSE QUEEN,
PEACHBLOW,
DELLA FOX,

DORNER,
STUART,
PORTIA,
JUBILEE,
IAGO,

HELEN KELLER,
KITTY CLOVER,
ELDORADO,
CARTLEDGE,
TIDAL WAVE.

Fourteen large houses full of Carnations. State how many you will want of each variety in asking for prices.

L. B. 496.

ALBERT M. HERR, LANCASTER, PA.

The Bridesmaid Carnation

is the pink carnation you want. It averages more HIGH GRADE blooms than any other pink variety grown. It has a long stiff stem, strong calyx, perfect form of flower and a color that cannot be excelled in its class. It sells quickly at a high price, and stands at the head of the list of pink carnations. It won the honors at the American Carnation Society Show at New York as best pink in classes A, B and C. Its growth is clean and healthy.

Order now to get your stock early.

No Rust, Strong Cuttings.

\$5.00 per 100, \$40.00 per 1000.

If you have not already received our list send for it.

F. DORNER & SON,
LA FAYETTE, IND.

The Crack Carnations:



SCOTT, ALBERTINI,
DAYBREAK, McGOWAN.

Selected Cuttings, well rooted in sand and soil, delivery February 15th and later, \$2.00 per 100; \$15.00 per 1000.

Send your order at once, with cash, to get these figures. . . .

ALEX. McBRIDE,
ALPLAUS, N. Y.

CARNATIONS.

ROOTED CUTTINGS.

In large quantities, see list of varieties in **FLORIST**, March 21st. Send for price list.

H. WEBER & SONS, Oakland, Md.

Always mention the American Florist when writing to advertisers.

CARNATIONS, for 1896.
Feb. 1906

EDWARD SWAYNE,
CARNATIONIST

Handwritten note: "We take pleasure in giving you 21 new column, red, white, and should like to see you at ten o'clock particularly to Carnation Portia. 150 1250. Eldorado which we believe is destined to take the leading place among yellow, it has obtained equally well on each side and in the market, bringing double the price of ordinary varieties also to Farquhar." *Signature: Edward Swayne*

CHRYSAETHUMS.
Eldorado, 5 40.
Koblenz, " " "
Ophelia, " " "
Unc. Jno 2 15
McGowan 10 1250
Fisher, " " "
Sweetbrier, 2 15.
Scott, " " "
Cartledge, " " "
Daybreak, " " "
Portia, 150 1250
Buttercup, " 50
Orange Blossom, " 25
Koblenz, " 10
VIOLETS.
Farquhar, 5 40
Campbell, 1 10

50,000 CARNATIONS

ROOTED CUTTINGS

Now Ready

Positively clear of RUST. Send for price list.

William Swayne,

P. O. Box 226. **KENNETT SQUARE, PA.**

ONLY A FEW

EDITH FOSTER CARNATION,

At dozen, \$1 50, and 100 rate, \$10.00.

Send for TRADE LIST of

NEW AND TESTED CARNATIONS.

PETER FISHER, Ellis, Mass.

CARNATIONS.

Rooted Cuttings in immense quantity, strong and well-rooted and particularly free from rust.

Daybreak, Wm. Scott, Thos. Cartledge, Tidal Wave \$2.00 per 100; \$15.00 per 1000

Lizzie McGowan, Silver Spray, Portia, \$1.50 per 100; \$12.00 per 1000.

Lady Campbell Violets in any quantity, \$1.00 per 100; \$8.00 per 1000.

IOS. RENARD, Unionville, Chester Co., Pa.

CARNATION CUTTINGS.

	per 100 per 1000
DAYBREAK, TIDAL WAVE.....	\$2.00 \$15.00
ALBERTINI, SCOTT.....	2.00 15.00
EMILY PIERSON.....	2.00 15.00
ROSE QUEEN, LIZZIE GILBERT.....	5.00 40.00
BRIDESMAID, METEOR.....	5.00 40.00

No rust and only healthy selected stock taken.

BELL MILLER, Springfield, Ill.

Garnation Orders

BOOKED NOW.

Good, clean, well-rooted stock. NO RUST.
Per 100 Per 1000

BRIDESMAID.....	\$5.00	\$40.00
METEOR.....	5.00	40.00
STORM KING.....	5.00	40.00
UNCLE JOHN.....	3.00	25.00
STUART.....	3.00	25.00
E. A. WOOD.....	3.00	25.00
GOLDFINCH.....	4.00	35.00
WM. SCOTT.....	2.50	20.00
DIAZ ALBERTINI.....	3.00	25.00
DAYBREAK.....	3.00	25.00

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	Each	Doz.	100
Mrs. W. C. Egan, new (ready March 1) \$	.50	\$5.00	\$35.00
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Mr. E. M. Bigelow.....	1.00	8.00	
Mrs. S. T. Murdock.....	1.00	8.00	
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Major Bonaffant and other choice older standard sorts.....	.75	5.00	

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LA FAYETTE, IND.

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AND PRIZE WINNERS.

Strong, healthy, well-rooted cuttings, from soil, of the following

Choice Carnations for Sale

BRIDESMAID	-	\$5 per 100
ELDORADO	-	5 per 100
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50,000 CARNATIONS

from flats, equal to pot grown. Warranted to give satisfaction. Cash with order.

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LIZZIE MCGOWAN.....	1.50	12.00
SILVER SPRAY.....	1.50	12.00
TIDAL WAVE.....	1.50	12.00
PORTIA.....	1.50	12.00
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NEW ROCHELLE, N. Y.

The largest and finest Collection of Palms in AMERICA. The beauty of stock is home-grown, making dwarf in fine shape and stand more usage than imported stock. A VISIT to our NURSERIES or a trial order and you will be convinced.

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Areca lutescens, Cocos Weddelliana, Kentia Belmoreana, Kentia Fosteriana, Latania borbonica, Phoenix, 3 varieties, *Pritchardia grandis*. DRACENAS, Commercial varieties.

The Grandest stock Ferns for jardinières in 5 varieties. No equal to our stock. We have without exception, the finest stock of Palms, Sive and Foliage Plants Orchids and Ferns in fancy named varieties for private use.

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300 Acres in Nursery.

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Cardenias, 8 inches.....	8.00
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Stock of above all pot-grown, ready now to ship, and in best possible condition.	
Fruit and Ornamental Trees, Rare Conifers, etc. Send for Trade List and Descriptive Catalogue.	

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LOOK HERE!

1000 Buttercup Carnations, the best yellow to-day; healthy stock, 2½ inch pots, \$5 per 100. Cash with order.

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The finest strain of of Pansies in the world, including all leading Novelties. Plants, middle size..... 75c per 100; \$5.00 per 1000. " extra large, will be in bloom in few weeks, \$1.50 per 100; \$12.00 per 1000. Terms cash or C. O. D. Plants from cold frames.

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New Asparagus Sprengeri 30c. New Spiraea Anthony Waterer 25c. New Climbing Meteor Rose 30c. New Golden Rambler. Yellow Souperet, New Crimson Rambler \$5 per 100. New Justicia, New Double Rudbeckia, New Cannas, Carex Japonica, Bougainvillea, Gladiol. Dbl. New Life Geranium, Geranium Agnes Kelway, best pink. Send for Catalogue of Novelties and Trade Bulbs at low prices. A. BLANC & CO., Japanese Jardinières at Philadelphia, Pa. very low prices. List free.

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WE HAVE A LARGE STOCK

Strong and stocky, coming into bud. A superior strain at the following low price.

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PANSIES.....	\$0.50	\$4.50
MAMMOTH VERBENAS.....	.70	5.50
CALIFORNIA VIOLETS, rooted.....	1.00	8.00

S. WHITTON & SONS, Wholesale Florists,

City and Green Sts., UTICA, N. Y.

St. John, N. B.

Easter has again come and gone, with all its rush and bustle, and now the florists will have time to turn their attention to the spring stock, which has been crowded to make room for the Easter display. Saturday was busy day in all the establishments, and all seemed to be doing a rushing business. H. E. Goold, from Sussex, was represented again as usual, although he did not seem to be doing much in the cut flower line, being more confined to plants. McLean disposed of the most of his roses to the dry goods stores, to be given away to purchasers of goods from the firms he supplied.

Mrs. W. H. Jones as usual made a very good showing of plants and cut flowers, there being some fine plants of azaleas, finding a ready sale.

H. S. Cruikshank made a good display of hyacinths, crocus, and other bulbous and spring flowering stock; his spiraea and longiflorums were exceptionally fine, while in cut flowers he undoubtedly had the largest and finest display ever made in this market. He reports a ready sale for everything at prices 25% better than any previous year. Roses this year have been plentiful and of very good quality. Carnations have been very short, not more than half what could have been disposed of.

The Horticultural Association is now busy at the Public Park and gardens. Superintendent Knott says they intend to do a big piece of work this season in the making of drives and walks, and in laying out the gardens, but they are very much delayed by want of funds. Some of our St. John moneyed men should take a lesson from the public spirited citizens of the United States and Upper Canada, and give such substantial aid as will enable them to carry on the work of such a noble scheme to a successful completion.

ST. JOHN.

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WE GUARANTEE full germinating power & replace seeds non-germinating

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Cocos Weddelliana . . .	\$12.00	\$55.00	\$100.00
Areca lutescens . . .	10.00	47.50	90.00
Areca rubra . . .	10.00	47.50	90.00
Geonoma gracilis . . .	12.00	55.00	100.00
Geonoma Schottiana . .	15.00	65.00	120.00

On hand in excellent condition:

Latania Borbonica,

54c per 100; \$2.75 per 1000; \$12.00 per 5000.

Pandanus Utilis

\$1.50 per 100; \$12.50 per 1000; \$50.00 per 5000.

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Association Flora,
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CLEMATIS, Large-flowering sorts,
\$15.00 per 100.

Rhododendrons in sorts, *Pæonia*, *Bleeding Heart*, *Spiraea japonica*, *Azalea*,
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H. P. ROSES in sorts.

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Catalogue on Application. JERSEY CITY, N. J.

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200,000 Strong, hardy, nursery grown Roses.
500,000 Pol. Roses, Teas, China, Bourbon, etc.
Greenhouse plants of all descriptions.

100,000 Elegant Poplars, 5 to 25 feet, Carolina Aurea, Lombardy.

ONE THOUSAND CAR LOTS of OTHER ORNAMENTAL TREES, SHRUBS, Etc.

250,000 Peach, choicest sorts.
150,000 Pear, standard and dwarf.
100,000 Plum, best European and Japan.
75,000 Cherry, Morellos, Hearts, etc.
150,000 Apple, Quince, Apricot.

100,000 Nut bearing trees.
2,000,000 Small Fruits, Grapes, Currants, Gooseberries, Raspberries, Blackberries, Dewberries, Strawberries.

We occupy one and a half miles on the bank of Lake Erie. No healthier, hardier trees are grown on the continent. Catalogue and Trade List free. Lower quotations given on large lots. Write us We can do you good

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offer will not appear again, and anyone wishing to avail themselves of this opportunity to secure a stock of these popular plants should send in their orders at once, so that plants can be reserved for spring shipment. WE GUARANTEE FIRST CLASS STOCK IN EVERY CASE.

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ROSES, from 3-inch pots.

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FUCHSIA	1.00	9.00
CHRYSANTHEMUMS	1.00	9.00
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In 2-inch pots add 50c. per 100.

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Lizze McGowan, Silver Spray, Louise Singler,
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BUT GET YOUR ORDERS IN.	Per 100	Per 1000
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The above are grown in flats, and in fine condition.

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	Per 100
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7 to 9 feet, first-class,
\$25 per 100.

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Fine stock; no mildew; \$2.50 per 100; \$20.00 per 1000.

ABUTILONS, leading varieties, our selection	\$3.00 per 100
Begonias, flowering varieties, our selection	3.00 "
Carnations, Lizzie McGowan and others	3 00 "
CALLAS LITTLE GEM	4 00 "

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New Carnation "Crimson Sport."

Large flower, finest velvety crimson, best keeper. Plants hardy, productive, free from disease. A good market variety. Send for list of rooted Carnation cuttings.

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Well rooted trees, 10 in. to 4 feet. \$4 00 to \$15.00	
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Gladiolus, Lemoine's Hybrid, choice named. 6 00	
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Double Tiger Lily No. 1	\$2 per 100
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pots	\$2 per 100
strong, 2 years	\$10
5,000 Pæonies, in 100 choice named varieties; none	
better, none cheaper. List free.	

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W. P. PEACOCK Atco, N. J



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write an advertiser in these columns.

Syracuse, N. Y.

The weather, like lovely woman, is fearfully fickle, as we have good reason to know. The first three days of Easter week were perfect spring days, and most every one thought winter was gone for good, but on Wednesday a change came, for we had a terrific thunderstorm accompanied by heavy rain. The wind jumped around to the north, and very soon the temperature fell to 10° above zero, and so it kept till Sunday, blowing from 40 to 60 miles an hour with a blizzard thrown in. All the florists have had very hard work delivering plants. In spite of the bad weather trade on all hands is reported good, and very little flowering stuff left over. Carnations and roses are scarce, everything else was up to demand.

The florists made a grand show. H. Burt's store, 100 feet long, was banked on either side from floor to ceiling with Harrisii, azaleas, cinerarias, valley, tulips, narcissus, daisies, and at the end an immense pyramid rising to the height of 20 feet made chiefly of Harrisii and azaleas. Wild smilax was used extensively throughout the store, making the whole effect fine.

P. R. Quinlan & Co., as before, had an annex store on South Salina street, which was made very attractive, in fact one might fancy it a spring flower show. The plants were arranged on tables the whole length. Harrisii and azaleas were particularly fine, pans of hyacinths, narcissus, valley, etc., were in abundance. Their regular store was also made most attractive.

H. Morris made a very pretty showing at his store. He was one of the fortunate ones with carnations and violets, for his crop was immense.

L. E. Marquisee made a superb exhibit in his fine show house, which was replete with everything one could desire. His crop of carnations was simply enormous; his roses too were in crop and fine. All the other florists had nice displays. Flowers sold as follows: Carnations, 50 cents to \$1 per dozen; roses, \$2 to \$12; valley, \$1; daffodils and tulips, 75 cents; hyacinths, 75 cents to \$1.50; violets, \$1.50 to \$2 per hundred. H. Y.

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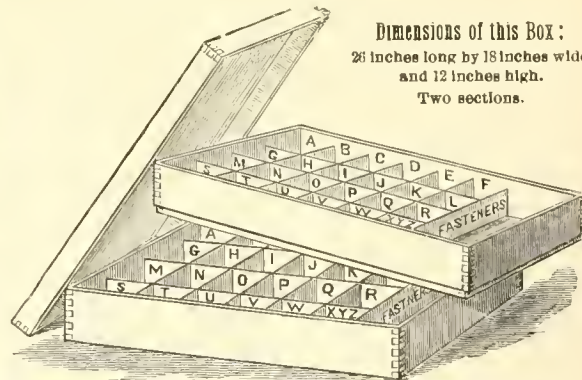
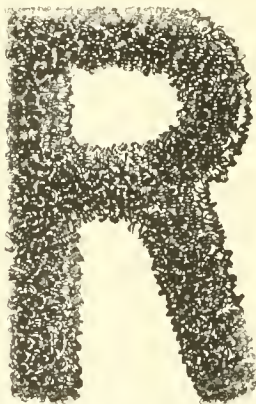
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Try a change with good stock, and do not confound these plants with rooted runners.
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RHINEBECK, N. Y.

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News Notes.

NEWPORT, R. I.—A. Brandt has opened a new branch establishment at 134 Thames street.

PRINCETON, N. J.—Theo. Knocke has taken J. Lannahan's business, located at 150 Canal street.

NEW ORLEANS, LA.—The New Orleans Horticultural Society has decided to hold a fall flower show.

WALTHAM, MASS.—R. T. Lombard, of Wayland, has opened a retail store on Main street in this city.

ELKHART, IND.—R. Hoffmann, formerly of Hillsdale, Mich., is now in business here at 120 Prairie street.

NORTH EPPING, N. H.—The greenhouses of Mr. Daniel Dow together with contents were destroyed by fire March 25.

POTSDAM, N. Y.—The Garden street greenhouses have been rented by Mr. J. M. Richardson of Plainfield, N. J.

FRYEBURG, ME.—S. W. Fife has bought out the interest of his former partner in the seed business, E. W. Burkank.

RICHLANDTOWN, PA.—Wm. Stine has erected three houses 60 feet long, and is raising carnations for the Philadelphia market.

THOMPSONVILLE, CONN.—Mr. D. Wm. Brainard made his third annual Easter display April 2 to 4. A neatly printed invitation was issued.

SPRINGFIELD, MASS.—The Hampden County Horticultural Society will hold a sweet pea exhibition on Tuesday and Wednesday, July 28 and 29.

BENNINGTON, VT.—The firm of Richardson & Gardner has been dissolved, and the business will hereafter be conducted by W. G. Richardson, as formerly.

NORTHAMPTON, MASS.—The Horticultural Society is planning to hold an exhibition of strawberries, roses, etc., next June. The receipts of the recent exhibition more than covered expenses.

STOCKTON, CAL.—Mr. Geo. West's place one mile north of the city, has two greenhouses and he will build this summer one 80x100 feet. His specialty is cactus, he also has a fine collection of orchids. Mr. H. P. Fitch has extended one of his houses; he also has strong faith in the cactus by the looks of his stock. Murray & Co. were closed out; a new firm has started on the same street.

PROVIDENCE, R. I.—The Florist and Gardeners' Club had a very interesting meeting on the evening of March 27. Among the matters discussed was the proposition to establish an exchange or market for the sale of flowers. There was a fine exhibition of carnations from local growers. Entertainment in music and recitations was furnished by W. H. Mason and Frederick Mahoney.

HARTFORD, CONN.—The spring exhibition of the Connecticut Horticultural Society this week has been a most successful event. Among the exhibitors were A. N. Pierson, W. B. May, Jas. Young, J. J. Goodwin, Robt. Patchet, G. Minge, Jas. Smith, T. J. McDonald, John Coombs, Stephen Delbar and C. H. Pember, all of whom staged interesting groups of spring flowering plants and bulbs. The judges were Robt. Veitch, Jr., of New Haven, and C. S. Morris, of Farmington.

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Send for our new price list, with extra discounts. All of our Pots from 7-inch and upwards have our Patent Excelsior Bottom, which is a great advantage as it insures perfect drainage.

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Announcement to Florists.

We desire to announce the dissolution of the firm of Siple Dopfel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopfel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

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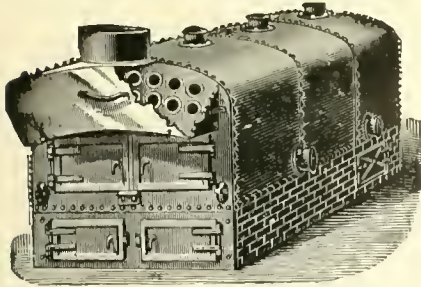
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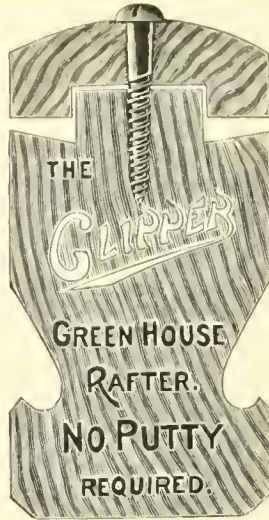
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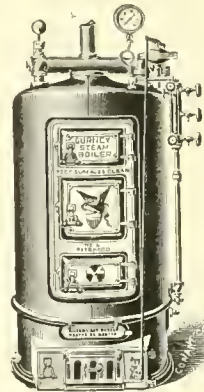
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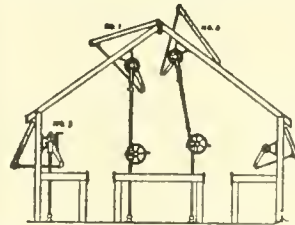
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EQUAL IT
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Strength
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Complicated
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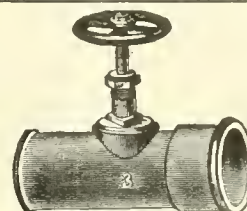
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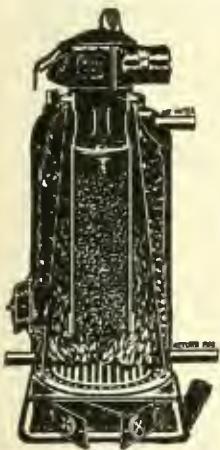
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Elliott W. H.....	1008	Rice M & Co.....	1016
Elliott Wm & Sons.....	1011	Ricksecker C. H.....	1016
Ellison Wm.....	1008	Rohrs Theo.....	1009
Eggs & Pollworth.....	1008	Rogers P. K Floral Co.....	1009
Eyerman J. M.....	1007	Rohrer A & Sons.....	1017 1020
Felthousen J. E.....	1014	Rolker A. F.....	1006 1008 1010
Fisher Peter.....	1012	Russell S. J.....	1016
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Gardiner Jno & Co.....	1011	Sander & Co.....	1005 1008 1010
Gonzalez F. & Co.....	1013	Schiller J. L.....	1007
Gray F. K.....	1013	Schwake Chas.....	1014
Gurney H. E. & Co.....	1019	Schwabacher Greenh.....	1015
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Hancock & Son.....	1012	Situations, Wants, etc.....	1005
Hansen M.....	1017	Smith Nath & Son.....	1017
Heacock Joseph.....	1017	Spae Bernard.....	1017
Hesse J. B.....	1005	Stearns Lumber Co.....	1019
Herr Albert.....	1012	Steffens N.....	1016
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Hill E. G. & Co.....	1015	Sutherland Geo. A.....	1009
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Hooker H. M. Co.....	1020	Swayze E.....	1012
Horan Edw. C.....	1009	Syracuse Pottery Co.....	1018
Hulsebosch Bros.....	1011	Tesson R. F.....	1006
Hunt E. H.....	1009	Teas E. Y.....	1015
Huntsman & Co.....	1009	Tokio Nurseries.....	1010
Jennings E. B.....	1005	Van Zanten Bros.....	1011
Joosten C. H.....	1011	Van Zanten & Co.....	1010
Jones McDuffee.....	1018	Vanderveed Bros & Co.....	1011
Kennelcott Bros Co.....	1008	Van Der Horst & Dames.....	1011
Koehler Ch.....	1010	Vaughan J. C.....	1006 1011
Kramer I. N. & Son.....	1015	Vick & Hill Co.....	1011
Kroeschell Bros Co.....	1019	Villa Lorraine Nurseries.....	1006
Kuhn C. A.....	1008	Watson B. M.....	1017
Kuhl Geo. A.....	1009	Watson G. C.....	1010
Lank Julius.....	1009	Weathereds Sons T.....	1018
Lengenfelder C.....	1014	Weber H. & Son.....	1012
Little M. B.....	1017	Weber & Don.....	1010
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Long D. B.....	1008 1010	Wiel H. M.....	1016
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Lord & Burnham Co.....	1020	Whitliff Pot Co.....	1018
Lonsdale Tobacco Co.....	1016	Whitton S. & Sons.....	1013
Lovett C.....	1007	Wilks Mfg Co.....	1019
Lynch W. E.....	1009	Williams & Sons Co.....	1015
McBeth Thomas A.....	1005	Winter & Glover.....	1009
McBride Alex.....	1012	Wis. Flower Ex.....	1008
McCarthy N. F. & Co.....	1008	Wittbold Geo.....	1005
Macrae F.....	1007	Wood Bros.....	1014
McDonald Bros.....	1019	Young Jno.....	1009
McFarland J. H. Co.....	1016	Young Thos Jr.....	1009
May John N.....	1014		
Michell H. F.....	1016		
Millang Frank.....	1009		

A Heating Problem.

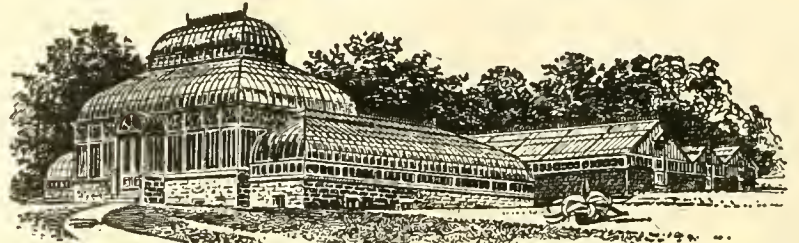
Can some reader of the FLORIST tell me a practical plan for utilizing artesian water, of about 100° Fahr., for keeping a small greenhouse warm in winter? Somewhere I have read of some one in Alabama or Louisiana I believe, who uses artesian water for such a purpose but don't know in what publication I saw it. Would any vapors that might arise injure plants? The water is strongly impregnated with sulphur.

Austin, Texas. A. J. SEIDERS.

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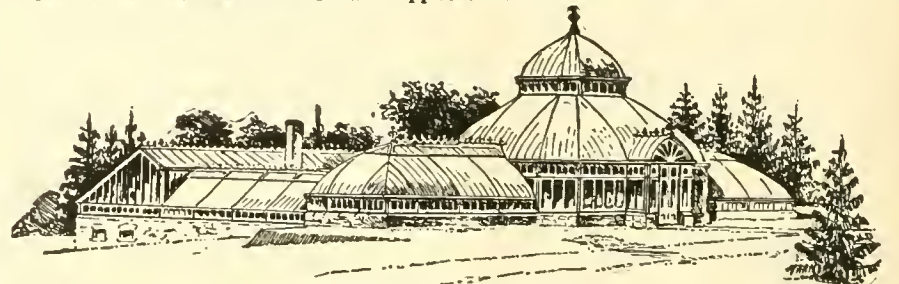
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Vol. XI.

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SOCIETY OF AMERICAN FLORISTS.

WM. SCOTT, Buffalo, president; ADAM GRAHAM Cleveland, O., vice-president; W. J. STEWART, Boston, secretary; H. B. BEATTY, Oil City, Pa., treasurer. The twelfth annual meeting will be held at Cleveland, O., August, 1896.

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Society of American Florists.

The annual session of the executive committee of the Society of American Florists, which was postponed on account of the illness of President Scott, will be held at the Hollenden, Cleveland, Ohio, beginning Tuesday, April 28. All communications for the committee should be addressed to the Secretary, Wm. J. Stewart, 67 Bromfield street, Boston.

OBITUARY.

DAVID ALLAN, the well known florist of Clifftondale, Mass., died Thursday, April 16, at the Consumptive's Home, Boston. The funeral will be held Sunday, 19th inst.

LAWRENCE, MASS.—Volume of trade and retail prices same as last year. Supply equal to demand, quality good. Increase of 10% in sales of plants.

SHELBYVILLE, ILL.—Easter trade was a little better than last year. More call for lilies and carnations, less call for roses. Very little call for plants.

CLEVELAND, O.—A slight increase, but a tendency toward lower prices. Supply equal to demand, quality fully as good as last year. The call for plants was rather less if anything.

KALAMAZOO, MICH.—Increase of about 20% with retail prices about the same as last year; supply equal to demand and quality satisfactory; increased call for plants and bulbous stuff.

HARRISBURG, PA.—Increase over last year; no change in retail prices; supply not quite equal to demand; quality about as last year; increase in the call for plants, especially azaleas and lilies.

LAWRENCE, KANS.—An increase of about one-third. Retail prices same as last year. Supply short. Quality about as last year. Not much call for plants. Principal demand was for *Harrisii* lilies.

FORT WORTH, TEXAS.—Easter trade was very good. Stock was in good shape and sufficient to meet all demands except lilies, the supply of which was short owing to dark weather preceding Easter.

PATERSON, N. J.—Increase of about 35% with retail prices about the same as last year; supply equal to demand and quality fully up to last year; increase in the call for plants and a greater demand for lilies.

PROVIDENCE, R. I.—Both volume of trade and retail prices about the same as last year; plenty of flowers with the exception of carnations; quality very good; no change in call for plants; very bad weather for delivering.

MINNEAPOLIS, MINN.—An increase of about 15%; retail prices same as last year; supply nearly equal to the demand; quality about the same as last year; an increase in the sales of plants; lilies seem to be most in demand.

LYNN, MASS.—A comfortable increase in total receipts and in retail prices. There was a shortage of carnations. An increase in the call for plants. The increase would have been greater had the weather been more favorable.

ELIZABETH, N. J.—A decrease of about 10% with retail prices about the same as last year; supply equal to demand and quality a little better than last year; large increase in the sales of plants and an increase in the call for carnations.

SALT LAKE CITY, UTAH.—Increase of 25% in total receipts with retail prices about the same as last year; supply equal to demand. One of the leading dry goods houses sold flowers at about 50% less than cost as an advertising scheme.

NEW HAVEN, CONN.—Volume of trade and retail prices about the same as last year; supply was ample except carnations; quality rather better than last year; increase in the sales of plants and a marked increase in the call for cut carnations.

LONDON, ONT.—A slight decrease. No material change in prices. Supply exceeded demand. Quality about as usual. Plant sales were not as large as last year owing to extreme cold. Probably 50% more business would have been done had the weather been favorable.

BRIDGEPORT, CONN.—Both volume of trade and retail prices about the same as last year; everything sold except some tulips and hyacinths; quality of stock better this year in roses, hyacinths and tulips; increase in the call for plants. In flowers carnations were in great demand.

NEW ORLEANS, LA —About the same as last year in total receipts, but retail prices about 20% lower; supply fully equal to demand and quality better than last year. In plants about the only call was for Harrisii lilies, and in cut flowers the special call was for blooms of the same.

WILMINGTON, DEL.—An increase of 50% over last year; retail prices were about the same; supply was equal to demand except cut carnations, which were short; quality about as last year; less sales of plants as the cold weather was against us; there were too many Harrisii on the market.

DENVER, COLO.—Slightly larger than last year with retail prices somewhat lower; supply fully equal to demand and quality better than last year; a very large increase in the sales of plants. This was the first pleasant Easter for three years, which with the lateness made trade better though prices ranged lower.

TERRE HAUTE, IND.—Increase of about 10%. Retail prices about as last year. Short of roses and carnations. Quality of flowers better than last year. Increase of 25% in sales of plants. Hyacinths in flat pans sold best. Bad weather threw all the business into Saturday and Sunday.

NEW LONDON, CONN.—Increase of 20%. Retail prices about same as last year. Supply ample. Lilies were freer from disease and finer. Sold more bulbous stuff in pans. Sales commenced earlier than last year. Thursday was a busy day; Friday and Saturday were cold and stormy, which hindered sales.

SAVANNAH, GA.—Best Easter we ever had, a large increase over last year. No change in prices. Supply short, could have sold double the quantity. All flowering plants sold well, especially those with white flowers. There was not half enough pot lilies. Owing to cold weather there were no outside flowers. Hardly any set pieces are now called for.

DANVILLE, ILL.—Every florist in the city reports a fine trade at Easter. Carnations were in the greatest demand; in most cases home grown flowers were the best, foreign grown not as good as formerly. Mostly all were cash sales, which pleased the "poor florist" greatly. Stock of Dutch potted hyacinths was exhausted. Good Easter come again; day lovely.

LOS ANGELES, CAL.—Much larger than last year. No change in retail prices. Supply ample except *Harrisii* lilies. Quality better than last year. Few plants were offered, we need many more. Carnations led in demand, callas next. Roses were good and plentiful. One church used 10,000 callas and 10,000 roses, in addition to set pieces and a large quantity of other stuff.

WORCESTER, MASS.—An increase of about 20% with prices about the same as last year; full supply of bulbous stuff but somewhat short on carnations and lilies; quality better than last year with the exception of violets; increase in the call for plants, and in flowers a larger call for carnations and violets. Good roses at fair prices went begging, while there was an enormous demand for carnations.

PORTLAND, ME.—Decrease of one-third from last year though retail prices held about the same; supply exceeded the demand and there was considerable stock left over; quality fully as good as last year with the exception of carnations, many of which were very poor; slight increase in the sale of plants and increase in the call for lilies and carnations; fewer set pieces called for and also less decorating in churches.

TRAVERSE CITY, MICH.—Easter trade here shows quite an increase over last year. Carnations were in good demand and sold readily at from 35 cents per dozen for ordinary to 50 cents for the best grades. A fine Easter display of cinerarias, genistas, carnations, etc., at Paue's greenhouse drew a large crowd of visitors, and as a result good sales were made. Prospects are good for a lively trade in spring bedding plants.

NEW BEDFORD, MASS.—About the same as last year; retail prices lower except on carnations; supply equal to the demand except carnations; quality better; no change in sales of plants; better call for violets and hybrids; a big call for cheap plants of *Harrisii* lilies that could be sold from 50 to 75 cents each; higher priced plants went slow; carnations were rather poor in quality but sold at 75 cents per dozen for mixed and \$1 for Daybreaks.

ALBANY, N. Y.—Both volume of trade and retail prices about the same as last year, with supply equal to demand; quality about as usual at the season. The weather being exceedingly cold and stormy the sales of plants were not quite up to last year; people seemed to buy more carefully on account of the general business depression, yet this did not seem to affect general trade seriously, the weather was the most adverse factor of the two.

MONTREAL.—An increase of at least 25%. Retail prices better than last year on flowers, but about the same on plants. Supply was good, though more first-class roses and carnations could have been sold. Quality in general was better than last year. Sales of plants were about as last year, except on spireas, which did not go quite so well. Good roses seemed to be first choice. Supply of *Harrisii* was short owing to diseased bulbs. An entire absence of orders for made-up work is becoming the rule at Easter.

OTTAWA, ONT.—About 20% larger than last year, with no change in retail prices. Supply equal to demand except roses and carnations. A slight increase in the sale of plants notwithstanding the weather. A marked increase in the call for carnations. The demand for bulb stuff, including valley, is falling off more and more each year. Scrim opened an extra store on Tuesday and delivered his plants in sleighs, but the sleighing was bad. His total sales were larger than last year. John Graham also had all he could do and is quite satisfied. A department store imported a lot of roses from New York and advertised them at 98 cents. This made the trade a trifle careful and few others were brought in.



Carnation Notes.

It is a natural consequence that when the culture of a certain variety of plants undergoes great improvements, when the florist makes a specialty of the growing of this variety, when these specialists make every effort to bring their culture to perfection, so with the study of the requirements to perfection comes hand in hand the study of its enemies. It becomes just as important to study the elements that destroy as those that build up. So I say again it is a natural consequence when we study the habits, the requirements, of these plants, we come in contact with their enemies and their diseases. Diseases that have existed, but escaped our notice, or were hardly thought of any importance; the consequence of ignorance and inattention. Again these diseases existent, may have developed with the culture of the plant, and so been brought to our notice. And still another possibility that I will give with a comparison. Civilization is followed by diseases that are unknown to the savage. So in the culture of plants, diseases appear that were not known in their primitive originality. Science tells us that plant diseases are caused by parasitic fungus and bacterial growths. May not a disease develop with the culture, a culture that mostly to some extent causes some alteration in form, habit, and the requirements for existence?

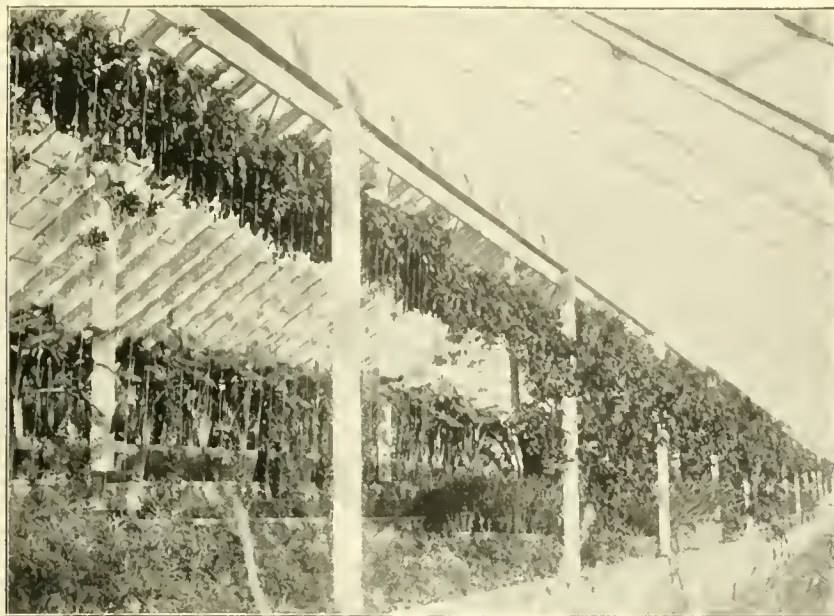
I felt very much gratified over the perusal of the bulletin on bacteriosis in carnations by Dr. Arthur and Professor Bolley, issued by the Purdue Experiment Station. And it is especially very gratifying to me to be confirmed in my ideas on bacteriosis, formed on former articles of the same author. There is much cause for thankfulness to have such men among our scientists, who devote time and labor in experiments with artificial cultures of

these microbes for a close observations of habits and growth, that will enable them to show us these deadly minute germs, their rapid multiplying and disastrous ravages, and give us with the knowledge of their nature, when not an absolute remedy, the power to counteract their growth, and reduce the danger of injury to a minimum.

Regarding the existence of this parasitic *Bacterium Dianthi*, as they have named it, (for it exists only in the *Dianthus* family according to investigations) in the carnation, prior to these investigations Dr. Arthur says in his introductory remarks, "Anomalous as it may seem the disease which we are now calling bacteriosis, and find to be the most abundant and ever-present of the maladies of the carnation plant, was not previously known to the cultivator, although it was before his eyes continually, and when at its worst caused the foliage of his plants to turn a sickly yellow, or to dry up and die, and the crop of flowers to become greatly curtailed on account of it." I do remember very well (and who will not, who has grown carnations 8 to 10 years ago) the sickly yellow spotted leaves, attributing it to some mistreatment, I always considered the cause overwatering, never imagined used how near my guess came to the point, with the only difference that the water on the leaves helped to further the disease, and not as I believed, too much on the roots. I also remember very well having these yellow spots pointed out to me as bacteria by the Purdue University florist, Mr. Pierre Vanlandigham.

Bacteria has existed, but was not known as such. May be it was an attendant of the *Dianthus caryophyllus* in its improved forms decades or centuries ago. We know the disease existed, we had to cope with an unknown enemy, had to fight in the dark. But thanks to the investigations of these scientists we receive light.

It is very interesting reading to follow them in their investigations so graphically described and illustrated in the bulletin; the separation of the specific germ (for others than that of the *Bacterium Dianthi* mixed in, in their cultures from the air), the cultures started from these pure germs in transparent nutritive media, their observations of the rapid development and multiplication, their infective experiments, all helping to a knowledge of these parasitic microbes; their entrance into the tissues of the leaves, their habit, growth and multiplication, the character of the injury to the plant. Again I say it is very interesting reading, and do not run over it casually, but read again, and study until you comprehend and master its contents, a knowledge that took these scientists a long time to arrive at. When the enemies' intentions and tactics are known, it is a comparatively easy matter to make a successful fight. So with this parasitic bacteria, if we have a full knowledge of its growing, we know how to meet it. Dr. Arthur says, "That the conditions of its life within the carnation plant are not the best for its highest development is evident enough." (For the artificial cultures in the nutritive media showed a much more rapid and higher development). Again "The bacteria progress from cell to cell very slowly and each diseased area is long kept within narrow and well-circumscribed limits. The danger from the germ as a parasite lies rather in the great number of chances for centers of infection than in its aggressive character."



A GIANT PLANT OF BIGNONIA VENUSTA.

This gives the key to the remedy, which does not consist in a medicinal prescription, but in the mode of culture, in the strengthening of the natural resistance the carnation plant develops. This I will make the theme of my next notes.

FRED DORNER.

Blighted Carnations.

What is the cause of white carnation flowers, when half grown or nearly out, showing a yellow appearance, development ceasing at that point.

Ayer, Mass.

A SUBSCRIBER.

This complaint, coming at this time of the year, is often caused by the hot sun scorching the young tender blooms in the bud. If the plants were much wilted through some of the bright warm days, often suddenly bursting out in March with a cold temperature outside, it may account for it.

FRED DORNER.

American Carnation Society.

Reports have been received by the secretary and are now being sent out to all members not in arrears over one year's dues.

ALBERT M. HERR, Sec'y.
Lancaster, Pa.

Scott Carnation not Opening Well.

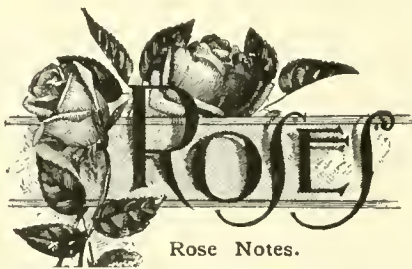
What is the cause of Scott carnations not opening well? I have three benches of them in a house, all treated the same. One bench is coming out finely, while one bench is not bringing a single flower perfect, and the other one is both good and had mixed.

W. A. B.

If the three benches are located in the same house it is hardly possible the plants have not received the same treatment. I do not doubt W. A. B.'s statement that the daily treatment necessary is all alike, but probably the difference has to be located before the plants were placed on the benches. There are many influences that may be at the root of this uneven behavior. Were the plants all propagated at the same time and from the same batch of plants? Did they all receive

the same treatment in summer, on same soil? Were they all housed at the same time? Were the soil and fertilizers used on the benches the same? Are the benches so located that they receive the same benefit of light and air? And is the temperature the same all over the house? These questions I propound to W. A. B., but the solution of this mysterious occurrence I must leave to him.

FRED DORNER.



Rose Notes.

The longer days and brighter sunshine will make necessary increased ventilation, and a combination of these will cause a much more rapid evaporation. To supply the extra moisture required, the plants must be syringed oftener (in fact every day if the weather is at all favorable). They will also drink up a great deal more through the roots. In order to keep up the quality of the flowers we must watch the watering very closely, a lack of moisture at the root, and a hot sun over head, are not factors likely to produce first-class roses. If the beds or benches can be given a mulch of rotted manure it will not only save a good deal of watering, but will protect the surface roots from the hot sun and at the same time supply necessary food for the plants; without very strong feeding now the size of the bloom must inevitably diminish.

The hot sun and dense foliage will furnish conditions suitable for the spread of red spider; our only safety is to go for him with a strong blast of water every time we syringe. By the way I find comparatively few men who syringe properly and thoroughly all the time; they find it so much easier to stand erect and let the water fall upon the plants, than to bend the back and by pressure of the finger

produce a fine but powerful spray, which coming in contact with the under side of the leaves and reaching every part of each plant in the house will make it impossible for spider to exist. With a good hose and good water pressure there is no excuse whatever for spider in a rose house. Ventilation will be necessary very early in the morning; as soon in fact as the temperature begins to rise, and gradually increase as the sun rises, to neglect the houses because of packing or anything else, and allow the temperature to run up several degrees above the proper limit before giving air, and then open the vents a foot or more at once, must work injury to the plants, and is calculated to give a good dose of mildew. In rose culture as in almost all things, it is the small things (so called) which when faithfully attended to bring success, and neglected result in failure. Lack of faithfulness in a man who has charge of a rose house cannot be compensated for by any amount of work done, or any other quality he may possess. It may be that the bright, active, energetic young man receives recognition and promotion at the hands of his employer, in advance of the slower, less pretentious, but more reliable and conscientious man at times, but the qualities possessed by the latter are those which make a man valuable in charge of rose houses. ROBT. SIMPSON.

Cutting Roses from New Canes.

When roses send up new canes from 3 to 4 feet, with one large rose, where should the cane be cut to insure best succeeding growth?

E. C. N.

South Dakota.

The strong shoots sent up from the base of the plant, especially those produced late in the season, when the plants are large and vigorous, have several eyes at the lower end which do not develop, unless they are compelled to by having that part of the shoot above them cut off; they then break very slowly, the result being a considerable loss of time between the first and second blooms. Unless the extra stem given will enhance the value of the flower sufficiently to compensate for loss of time between the crops, it is more satisfactory when cutting to leave at least one or two good prominent eyes on each shoot.

ROBT. SIMPSON.

Bignonia Venusta.

The Bignonia venusta is a grand greenhouse climber and one whose flowers are very useful to the decorative florist. The accompanying cut is of a single plant in a house 100 feet long by 22 wide. It is planted in the middle and is trained to the ridge pole, extending the entire length of the house. Every season since it was planted, some twelve years ago, it has flowered abundantly. The past winter's crop, which is about 500 flowers larger than last year, amounted to 3,700 clusters. Each cluster contains from 15 to 25 tubes; these average in length from 3 to 4 inches. The color of the flower is a bright orange shaded somewhat according to the age of the flower tubes, which do not all open at once. It commences to open its flowers about Christmas, and continues to flower about six weeks.

Messrs. T. E. Edwards & Bro. of Bridge-ton, N. J., at whose establishment this plant is growing, say they have no trouble in disposing of the flowers, and could the past winter have sold many more. Mr. Steen Edwards, the father of the present proprietors, has only recently

retired from the firm; he has passed his 85th birthday and is now enjoying a well earned rest. Mr. Edwards was the first florist in this country to discover virtue in the freesia, and for several years all the stock grown was sent out from his establishment. K.



Dendrobium Nobile Burfordiense.

Among the orchids now blooming in the collection of Mr. D. S. Brown, at Brownhurst, in the suburbs of St. Louis, are several plants of an unusually beautiful form of *Dendrobium nobile* that he procured some five years ago. While *nobile* varies extremely, so that over twenty named varieties are met with in collections, the greater number of them differ merely in habit, or size and color of flower, and it is only when monstrosities (as a botanist would call them) occur that the type is strikingly departed from. This is the case in the present instance, for the lateral sepals, below the median line have assumed the texture of the labellum, and are somewhat creamy toward the undulated lower margin, while the basal two-thirds on this side is marked by a deep maroon or rose-purple blotch somewhat radiately broken up on its lower outline.

This variety, exhibited in England some six years ago, was figured and described in the *Journal of Horticulture* in January, 1890, xx. 65, t. 9, under the name of *D. nobile*, Burford var. It is also mentioned in *Garden and Forest*, vii. 159, and the *Orchid Review*, iii. 150. From what I can now learn, it has appeared with Sir Trevor Lawrence in England, and Hicks Arnold, C. J. Carpenter, and Mr. Brown, in this country. Mr. Carpenter's form, described as having broader, rounder segments and larger flowers, perhaps deserving varietal distinction. As shown by Mr. Brown's plants, intermediates occur between it and the type.

Two other comparable monstrosities of *D. nobile* are described. One, the most beautiful of the *nobile* varieties, with the lateral petals somewhat like the lip, is *D. nobile Cooksonianum*, Reichenbach in Gard. Chron. n. ser. xxxiii. 692, *Lindenia*, iv. 11, pl. 340; the other, *D. nobile Tollianum*, Reichenbach, Gard. Chron. n. ser. xxi. 445, with the flower inverted and only partly expanded.

WILLIAM TRELEASE.

Floriculture in Colorado.

At the meeting of the New York Florists' Club on April 13 Mr. E. A. Wood of West Newton, Mass., read an interesting paper on his impressions of and experiences in floriculture in the west. After a brief explanation as to the meaning of the term "the west," a country which like the east seems to recede as one approaches it, Mr. Wood said he proposed to restrict his remarks to that section in which he had recently spent a year and a half, Denver and Colorado Springs, which are the center of the flower trade of the states and territories of Wyoming, Colorado, New Mexico, Arizona, Utah, Montana and Idaho. Conditions in that part of the world, he said, are so different from those prevailing in the eastern United States that the first year's labor

of a man going there from the east is hardly worth any pay. A man must abandon the idea that there is but one way to grow a crop, and must make up his mind to break away from established rules if he would avoid a record of total failures, and that even the path of the careful brainy grower will be found beset with thorns, and he will spend many an hour over snarls difficult to untangle.

There are, he stated, in the two sister cities of Colorado over 500,000 square feet of glass used in the cultivation of cut flowers, the greenhouses being modern in pattern, of finest construction, with immense boilers and best methods of piping and ventilating. There are 350 bright sunny days in the year, and coal is plenty at a moderate price. The houses as a rule run north and south, the growers preferring them that way on account of the intense sunlight in the middle of the day during spring, summer and autumn. One great mistake made by the growers is that none of them seem to make a specialty of any one or two of the various branches of the business, but all are trying to cover the entire field, wholesale, retail, plant, flower and nursery, the result being indifferent success, a poor average quality of almost everything and consequent low prices. Roses are grown in the same varieties as in the eastern states. Beauties do nicely up till Christmas, then the crop lightens, but the plants recover early. Then in the months of February and March the warm sun causes the temperature in the houses to run very high, producing the growth of those extremely long shoots that require so much time to develop a flower. The Wootton seems to have found its ideal climate here and is often seen with 24 to 30-inch stems, and grand blooms that rival the American Beauty. Carnations do grandly and give flowers that would command top price in any market. With chrysanthemums the growers are especially successful, the plants growing lower and more bushy than in a moister climate. Violets suffer from the excessive summer heat and very few make any success with them. Palms and decorative plants require shading both in winter and summer, it being also necessary to cover the glass with cotton cloth on the inside. The culture of ferns is an unsolved conundrum. Pot plants are grown with varying success, flowering plants, geraniums especially being the most in demand, and coleus and fuchsias being generally unsatisfactory, and pansies perhaps the most successful of all, both on mountain and plain.

Speaking of the climatic troubles Mr. Wood said that growers in that section could get but little instruction from the cultural articles written for the trade papers by eastern growers. "Cut your sod and stack it up with well-rotted manure" is advice of little use in a country where there is no sod and none can be made except at a great expense for irrigation and attention for two or three years, and where the only material at hand is prairie soil dry as dust, plastic when wet, and frequently containing more or less alkali. Sheep manure is abundant and cheap, but horse and cow manure are very poor, the animals being fed principally on alfalfa, having very little grain, and the manure no body at all. Rotted manure is out of the question, the air being so dry that it does not remain wet more than an hour or two after being dropped, but becomes so dry that it will blow away.

Out of doors irrigation is necessary for everything, and the expense of cultivation is thus increased fully one-half. Even

with the best attention some plants, such as bouvardias and hydrangeas, will not grow under irrigation. The character of the soil and the extreme heat during the day make the quantity of water required inside the greenhouses very great also, it being hardly possible to overwater a bench of roses from April 1 to November 1, and red spider is an ever-present pest on carnations and roses. With these climatic difficulties added to the financial depression that has prevailed to an aggravated extent in the western states it is plain that the life of the florist of the far west is not all a bed of roses and the unwise competition on prices and lack of harmony in the trade have made the burden still heavier for all. Mr. Wood thought that within ten years carnations might be shipped in quantity from the west to the east. They grow beautifully, produce wonderfully, and like the California Bartlett pear, grown in a dry climate have wonderful keeping qualities.

Effective Combinations and Arrangements of Plants in the Shrubbery and Garden.

BY PROF. B. M. WATSON.

[Read before the Boston Gardeners' and Florists' Club.]

The permanent value of any ornamental planting, confining ourselves for the present to the plants alone and not considering the surroundings, depends upon the arrangement of the component parts, i. e., upon the grouping of the trees, shrubs or herbaceous plants, which taken together, make up the landscape or garden. The object of this paper is to call attention to various combinations of good plants which by means of their flowers, foliage, fruits or the coloring of their twigs produce pleasing effects at different seasons of the year. These groups may sometimes be a part of a larger plantation, at other times they may be sufficient in themselves to produce desirable effects.

My text, so to speak, is a bit of planting on the park-way in Brookline, Mass. where a clump of scarlet dogwood and golden willow has recently been set out, and has attracted much attention, and many imitators, by its warm, bright coloring during the winter months. Many men and women, who do not usually pay much heed to trees and shrubs, have been charmed by this gay bouquet, which thrives in the midst of our New England ice and snow. The effect in question might be considered fantastic, undoubtedly this combination of colors, even if relieved by the green foliage of neighboring plants, would not be advisable in summer, but in winter these crude and glaring colors are not only pardonable but commendable.

This subject is not new, all gardeners have their pet combinations for indoor and outdoor work; it is largely to promote discussion that I have introduced the topic; so that we all may profit from each other's experience. In a way there forms of planting may be compared to a bouquet, or other floral arrangement, if the "set pieces" done on wire frames are eliminated, but they are living and growing bouquets, their duration is of weeks or months, instead of hours or days. The same care must be exercised in grouping living plants that the florist would give to his decorations, or rather, much greater care must be bestowed, since these embellishments are so much more lasting; the more striking and showy the plants, the more attention must be given to the grouping, the greater the need for green backgrounds and foregrounds. The



DENDROBIUM NOBILE BURFORDIENSE.

modern florist often makes a bouquet of a single kind of flower and arranges it with its own foliage, what, indeed, can be better for roses than their own fine leaves? Is there anything which harmonizes better with the carnation than its own soft, glaucous green foliage? Does anything better set off the lily of the valley than its own green? So too in planting, most happy results are often produced by large masses of some one species of tree, shrub or hardy perennial, but it is also necessary that variety should be given, to obtain this we must have combinations.

The simplest groups are those in which different species or varieties of the same genus are used, as for example, where one plants together the various forms of *Rosa rugosa*, the crimson, the white *Mme. Bruant* and others. A variation of this single arrangement would be the addition of *Rosa Wichuraiana* in front and some of the strong growing roses such as *R. multiflora* and its varieties, the dog rose or sweetbriar, behind. If more variety is sought, *Berberis Thunbergii* could be introduced into the middle foreground, and a background for the whole could be furnished by some bold leaved conifer like *Abies Nordmanniana*. An effective wind-break must necessarily be made of some one or two kinds of coniferous evergreens, but the monotony of each a plantation can be broken by the introduction of a few deciduous trees, birches and larches naturally suggest themselves for such a purpose. The beautiful Hemlock Hill in the Arnold Arboretum is much relieved, both in summer and winter by a few maples scattered through the wood, while the willows by the brook at the foot of the hill are an additional charm.

Care must be taken in selecting plants which will not only produce the desired effect, but which will also be in good condition throughout the season, or such plants as can be succeeded by others, if

their duration is comparatively short, as for example the spring blooming bulbs. Due attention must be paid to differences in rate of growth, to harmony in foliage as well as in flowers, and it is hardly necessary to observe, the plants must be adapted to the situation. Some plants are always good, particularly those which have white flowers, where there can be no possible clash in color. Examples of such plants are *Spiræa Van Houttei* and *S. Thunbergii*, *Berberis Thunbergii*, the Californian privet, *Polygonum cuspidatum*, *Funkia subcordata*, *Rosa Wichuraiana* and *Lonicera japonica*, both the type and the variety *Halliana*; these all have good foliage, it would be hard to find a combination in which they were not admirable. These are simply suggestions by way of introduction, many circumstances must be considered in problems of this nature, soil, climate and cost must all be kept in view.

Naturally our first thoughts turn to spring flowers. A very effective arrangement for early bloom can be made by grouping together various plums and cherries. *Prunus Davidiana* is the first to bloom, indeed it is so early that the frost often nips the flowers, *Prunus subhirtella* (*pendula*), *P. tomentosa* and *P. cerasifera*, the myrobalan plum, bloom almost absolutely at the same time and make a charming display long before the leaves expand. *Spiræa Thunbergii* makes a graceful border to such a group, and it might be backed up by some of the double flowering cherries. In sheltered positions the double almond and the double Japanese plum, *Prunus triloba* fl. pl., could be added, besides other members of this genus, and thus, a succession of flowers be provided in early spring. Whenever effects of this description are attempted, it must be remembered that the foliage of these plants, and of many others, comes generally after the blossoms, or at all events is insufficient, therefore it is well to have a

mass of evergreens to give relief to the otherwise too conspicuous flowers. Such a setting of green is comparable to the background of a picture and serves to still further enhance its value. After the season is advanced the grass and surrounding foliage is adequate; in early spring, and always with bright and striking flowers, plenty of green must be furnished.

It is hardly necessary to say that the Dutch bulbs are important spring blooming plants, their usefulness is so well illustrated in the Public Garden that no extended remarks are required. They are much more effective when planted in large masses, the now common method of sending import orders makes it possible to obtain them at very reasonable prices. Snowdrops, crocus, squills, *chionodoxa* and all this class should be planted by the hundreds and thousands. Care must be given to the color combinations, blue does not go with pink and scarlet, nor bright scarlet with pink; for example, you should not plant purple hyacinths with scarlet *Duc van Thol* tulips, nor should this tulip be set near pink hyacinths, such as *Lord Macaulay*. The blues and purples harmonize with yellow, but yellow should be next apart from scarlet and pink. All statements of this description must be made in a general way, the delicate shades of many tulips and hyacinths makes it possible for those who have an eye for color to bring strange bed fellows together. Condense planting of this kind as much as possible; narrow borders long strung out are not nearly so effective as broad masses. Other spring flowers can be introduced into beds of bulbs, arabis, primroses, pansies, forget-me-not, *Phlox subulata*, *Alyssum saxatile* and so on. They may not bloom at the same time, but their foliage affords a much needed relief, and succession is provided. Some shrubs like *forsythia* flower with the early tulips and gay results can be produced with these combinations; here much depends upon the background, the dark green of the Austrian pine or the silvery blue of the white or black spruce heightens the effect.

A good arrangement of herbaceous plants for late spring or early summer is *Lilium candidum* with the tall hybrid larkspur behind and Chinese larkspurs in front; the autumn crocus and colchicum can be introduced to give succession. Another good combination for this season of the year is the large purple German iris and yellow lilies, *Hemerocallis flava* and *H. Thunbergii*. The scant foliage of the iris is much relieved by the abundant green of the *hemerocallis*, while the yellow and purple flowers of both agree. It may be well here to call attention to *Hemerocallis fulva*, an excellent plant to use where a background of bold dark green is needed, easily grown under adverse conditions such as shade, poor soil or exposed situations, while its tawny mahogany yellow flowers come late in the season after the abundance of summer bloom is past.

A good combination, to insure succession, is obtained by planting the Oriental poppies with the Japanese anemones or with *tritoma*; sufficient room must be given to permit full developments and to allow good cultivation. In many gardens now lilies are planted with *rhododendrons* and *kalmias*, this is highly commendable, the preparation of the soil and the same cultural conditions in general being suitable for all these plants. Our native lilies, *L. canadense* and *L. superbum*, are particularly desirable for this use; nothing could be found to make a

better setting for the bright and abundant flowers of the lilies than the deep green of these broad leaved evergreens. Perhaps some one can suggest an equally happy combination for hybrid perpetual roses, the attractiveness of these roses in our climate passes away with the June bloom; it is a great desideratum for gardeners to find some means by which the rose bed can maintain its interest throughout the season. *Polygonatum multiflorum*, Solomon's seal and *Funkia subcordata*, the white day-lily, make a graceful group, they are not only good together but also in connection with many other hardy perennials. A pleasing summer group is golden elderberry with *Prunus pissardii* and purple barberry.

In the late summer and early autumn, the asters, golden rods, *boltonia*, *rubbeckia*, *liatris* and sunflowers are very efficient, and many apt dispositions can be made of these glorious plants. Some of them are lacking in good foliage, this failing can be obviated by introducing such plants as *Polygonum cuspidatum*, *Hibiscus moscheutos*, *cosmos*, *coreopsis* of sorts, *Asclepias tuberosa*, ornamental grass and others which will not only furnish green but also prolong the season of blooming. This perhaps is the best possible illustration of the kind of effects which it seems desirable to produce. We have here a collection of plants most suitable to our climate, they are largely natives and accord with the surroundings, they bloom in pleasing succession and their colors are harmonious. The family *Compositæ* furnishes a large number of decorative plants, both for flower and foliage, most happy results can be obtained by planting them together; a bed or border of these plants is always most interesting, particularly where there is room to plant on a large scale.

Although the above named plants prolong their period of blooming well into the autumn there comes a time when we can no longer depend upon flowers; we must look to foliage, fruits and the coloring of the twigs for continued interest in the garden and shrubbery. Foliage effects at this season of the year are twofold, we have the brilliant autumn colors and we have some trees and shrubs, less well known, which carry their green leaves well into the early winter. In other words there are some semi-evergreens which keep green long after most trees and shrubs have lost their foliage. This green effect during the autumn is supplemented by the broad leaved evergreens, *rhododendron*, *kalmia*, *ilex*, *andromeda*, etc., but many of them require protection, at any rate for some time until fully established, and go into winter quarters in November. The pines and spruces are most useful but often too large for, at any rate, garden use. The English oak, California privet, Hall's Japanese honeysuckle and the type, *Lonicera japonica*, often called Chinese honeysuckle, *Akebia quinata* and *Rosa wichuraiana* are examples of this class of plants and can be most effectively used as framework for our bright and vivid autumn foliage, or as a setting for the brilliant fruits of *crataegus*, black alder, etc. Plant a back ground of English oak, in front of it a clump of sumachs, *Rhus typhina* with *R. semi-alata* (Osbeckii), *R. glabra*, *R. copallina* in the order named, in front of them *Spiræa thunbergii* or *Berberis thunbergii*, finishing off with *Rosa wichuraiana* or substituting for the latter either *Rhus canadensis* (aromatica) or *Xanthorrhiza aspiifolia*, thereby a brilliant autumnal effect is produced, while the fruit and coloring of the twigs

carries the interest through the winter. Some delightful grouping has been accomplished in the Arnold Arboretum by combining *Vaccinium corymbosum*, *Leucothoe racemosa*, *xanthorrhiza* and *Thunberg's barberry*, effectively relieved by the green of privet and honeysuckle. Our common wild roses, *Rosa lucida* and *R. nitida*, are very bright in their autumnal coloring, their abundant fruit and vivid red twigs keep the border gay the whole winter; both effects are heightened by a border and backing of green. Another good combination, which might be included in or adjacent to the group suggested above, would be the prostrate juniper in front, the *Berberis thunbergii* and, behind, the holly-leaved mahonia, *B. aquifolium*, unfortunately the foliage of this last named plant is seriously affected by severe weather, but throughout the early winter its fine red bronze leaves are most telling. The common barberry, *Rosa rugosa* and *R. multiflora*, the sweetbrier and dog rose would make still further and acceptable additions to these plantings.

The most pleasing arrangements, where winter fruits are concerned, depend upon such combinations as will provide foliage after the fruiting plants have lost their leaves; for example with black alder plant the ink berry and Californian privet. There are not many plants which furnish bright berries after severe frost, the black alder, the chokeberry, *Pyrus arbutifolia*, the bittersweets, *Celastrus scandens* and *C. paniculata*, barberries, hawthorne and roses are the most important, all of them are much improved by a setting of green; the nature of the green must be determined by the surroundings. In addition to the semi-evergreen plants lately enumerated many conifers are at our disposal. We are however, sadly in want of perfectly hardy conifers of moderate size, nothing is better than the English yew where it can be grown, the American yew is thoroughly good, but the Japanese cedars are not to be depended upon. In many cases of this nature we must resort to clipping, or rather heading in strong growing firs like *Abies Nordmanniana* and *A. pectinata* to furnish the bright lively green which makes the best background for winter fruits and twigs.

Those plants which bear a profusion of fruit during the late summer and autumn are generally planted together in good sized clumps and for the most part can be relied upon to furnish their own foliage. Good plants of this description are Tartarian honeysuckles, particularly some of the new hybrid sorts, *Lonicera Morrowi*, *Viburnum cassinoides* (nudum), *V. dentatum*, *V. Lantana*, *V. Lantanoides*, when procurable, and *V. opulus*, the tree cranberry, which is one of the very best, holding its fruit in good condition until severe weather. *Myrica cerifera*, the bayberry, produces good fruit in autumn and winter and its semi-evergreen habit makes it effective in many combinations; the snow berries, *Symphoricarpos racemosus* and *S. vulgaris* are attractive; the last named, having fine foliage, and succeeding well in the shade, makes a most useful plant in various groups; many of the cornels have showy berries, and doubtless other plants will be suggested.

The effective planting of golden willows and scarlet dogwood, to produce color in the landscape during the winter, has already been mentioned. I should like to make some suggestions in regard to variations which might be made on this original composition. The first planting was made of *Salix alba* var. *vitellina* and *Cornus siberica*, *Corchorus japonica* was added, the green twigs affording relief to

the yellow and red of the osiers. By introducing other species and varieties of the scarlet osiers, *Cornus sanguinea*, *C. sericea* and *C. stolonifera*, each in clumps, an attractive effect in shading can be produced in the reds, while the same shading can be given the yellows by using not only *S. alba vitellina* and an unnamed Russian variety. It must be noted that both cornels and willows, particularly the latter, in order partly also to equalize the size, must be severely pruned in late spring, otherwise the strong annual growth upon which the color depends, will not be produced in sufficient abundance especially after the plants get old. *Cornus Mas* and *Forsythia Fortunei* can be added which, by their flowers in early spring, prolong and intensify the red and yellow of the original combination; the yellowish cast, too, of the *forsythia* twigs is very marked during the winter. It is hardly necessary to say that a background of sturdy evergreens is highly desirable. Winter effects of warmth are always good, and it is by no means necessary to have the extremely gay planting described above. The warm brown of the twigs of *Thunberg's barberry*, *Spiræa thunbergii*, *Rhus typhina*, some of the hardhacks, *S. tomentosa*, etc., are in their way, equally effective.

Washington.

Easter has come and gone, and all the florists are happy. Saturday before Easter was an exceptionally busy day with them all. The cool chilling winds, snow and rain of Wednesday, Thursday and Friday prevented the buyers from placing their orders earlier, and the business of the entire week was crowded into one day. Flowers were plentiful, with the exception of carnations, which began to run low toward evening. The quality of the flowers was above the average. The stands in the markets were crowded with flowering plants of all kinds and quantities of cut flowers. There was a scarcity of outdoor early bloom, which was so abundant last Easter. This was due to the unusually late spring, and was much to the florists' advantage. The old colored women who usually glut the market were not in the business this Easter, and the flower lovers and the church decorators were obliged to go to the florists for all their flowers.

The demand for plants in bloom is growing every year, as most people think the blooms last longer on the plants than when cut. Hydrangeas did not seem to be among the favorites this year, owing to the fact that they wilt so easily; the same complaint is made of *Astilbe japonica*. Lilacs in 6 and 8-inch pots sold readily. Yellow and white *Marguerites*, of which a great number were used for church decorations, sold well. *Cyclamens* were also easily disposed of at a good price. *Astilbe* was never in finer condition, and sold very good at from 75 cents to \$1 each, according to the number of flower spikes. There was a big demand for azaleas, but unfortunately the supply was limited, and they were soon disposed of at from \$2 and \$3 each.

Harrisii was probably the best selling plant in the market. The majority of the stands were well supplied with them in 7, 8 and 9-inch pots. Single stems brought \$1, while those having two and three stalks readily brought \$2 and \$3; those in 9-inch pots sold for much more, some of them bringing as much as \$5 and \$8.

There were but few cut *Harrisii* in the market; everyone wanted the plants in bloom. Many were used in the decoration of churches. There was quite a



FROM THE ENTRANCE.

FROM THE CASHIER'S DESK:
VIEWS IN THE STORE OF SAMUEL FEAST & SONS, BALTIMORE.

demand for pans of growing tulips, which retailed for 50 cents per pan.

Beauties, Brunners and La France were fine and in great demand, the two former selling at \$6 to \$9, the latter at \$1.50 to \$2 per dozen, according to quality; Perles \$1, extra fine ones \$1.50. Meteors and Woottons, being a little deep in color, were not so much in demand, retailing for \$1 to \$1.50. Brides and Bridesmaids were good sellers and brought \$1.50 to \$3. Golden Gates were much sought for and sold for \$2 and \$3. Carnations were greatly in demand at 25 to 75 cents per dozen, fancy ones \$1. Lilies, both callas and Harrisii, \$3 to \$3.50 per dozen. Violets, \$1 to \$1.50 per hundred; they were very good and in great demand. Sweet peas, 50 cents per dozen. Tulips sold well at from 50 to 75 cents per dozen. Narcissus sold fairly well at 25 cents.

There seems to be a growing demand for small mailing orders which are taking

the place of the (former) Easter cards. The florists say there is but little in these orders, as they require much time in preparing for mail, at a time when time is money, but they lead to larger and more profitable orders, and the customers are seldom turned down.

All the florists' stores were decked in Easter array as early as Wednesday; they all made a very creditable display. J. H. Small & Sons' entire store was a mass of flowering plants. Their large 14th street window represented a garden. In the center was a small fountain edged with *Adiantum cuneatum*, with gravel walks radiating from it. The grassy lawns were made with *Adiantum cuneatum* edged with *selaginella*. In the foreground were two beds of *cypripediums*; just back of those were three rose beds. In one was a fine group of Paul Neyron, in another Mabel Morrison, and the third was Brunners, all of the finest kind; these were cut

blooms in low vases entirely hidden by the *adiantum*. In the center at the back of the grounds was an immense Easter egg of cape flowers. One side was broken; from this opening, falling over the side of the egg, were the graceful fronds of several small plants of *Farleyense*. Around this was tied broad pink and green ribbon, the ends being lost among the plants in the background. In one corner of the window was an arrangement of cork representing a stump of a tree with its branches projecting; these branches, as well as the stump, were a mass of *Dendrobium nobile*, plants well covered with bloom. In the center of the background stood a fine specimen *genista* in full flower; on either side of this were arranged a group of white lilac, heaths and astilbe. The ceiling and side of window were covered with mull delicately sprayed with asparagus. The store was filled with blooming and decorative plants of all kinds, making a fine show.

Gude Bros' window was arranged with a large circle of astilbe and pink hyacinths, with a ground work of *selaginella* and a background of *Harrisii*. Their store was well stocked with bulbous flowers of all kinds, hydrangeas, marguerites, white and yellow, azaleas, roses, carnations and decorative plants.

J. R. Freeman's window display was of cyclamens with *mignonette* and lily of the valley, with a ground work of *adiantum* backed with a grand lot of *Harrisii*. His elegant salesroom, which is really a greenhouse, was well stocked with azaleas, hydrangeas, astilbe, tulips, hyacinths, roses, carnations, violets and decorative plants of all kinds.

C. F. Hale displayed a fine lot of azaleas, *Harrisii*, hyacinths, tulips, cyclamens, palms, dracæas, *pandanus*, rubbers, in fact everything which goes to make up full line of Easter stock.

REYNOLDS.

New York.

Warm weather has brought on at last the expected heavy production of roses and resultant down fall in prices. On Tuesday of this week the ten-dollar-a-thousand limit was reached for the first time in many weeks and inferior stock went at even less figures. On first quality American Beauty with long stems, perfect foliage and large flower the highest price possible has been \$25 per hundred. Carnations have felt the pressure somewhat but not to the same extent as have the roses. All other stock, with the exception of *smilax*, is too abundant, and although there have been a good many large wedding decorations during the week yet the surplus retains its unwieldy proportions.

At the meeting of the Florists' Club on Tuesday evening Mr. E. A. Wood of West Newton, Mass., read an interesting paper on his impressions of the west. The discussion over the proposed constitutional amendments reducing dues and initiation fees furnished an opportunity for much oratory on both sides of the question. The amendment was finally defeated by a decisive vote. An invitation from the North Hudson County Florists' Club to attend their third annual ball and floral fete was received and accepted with thanks. A number of members urged the necessity of the club's taking some steps towards holding exhibitions in the future if it is to retain its present prominent position. This subject was discussed at length and it was finally ordered that the sum of one thousand dollars be set aside as an exhibition fund and the trustees were instructed to make such

arrangements for a fall show as would seem to them to be for the best interests of the club. Mr. J. I. Donlan announced that the New York Gardeners' Association would hold an exhibition of roses and hardy herbaceous flowers next June and asked the co-operation and assistance of the New York Florists' Club in making it a success, in accordance with which president Allen appointed Messrs. O'Mara, Sheridan, Plumb, May, and Young as a committee to act for the club. Mr. Withers called attention to a proposed exhibition to be held in October by the American Institute, in which the Concert Hall of Madison Square Garden will be reserved for the floral department. It was voted that the club hold no sessions during July and August of the present year.

On Saturday evening, April 11, the N. Y. Gardeners' Association held an enthusiastic meeting at which J. F. Withers gave a talk on old favorite flowers, of which there were on exhibition for purposes of illustration ninety varieties contributed by eleven exhibitors. Alfred Outram of England was present and made a few remarks. A delegation came from the New Jersey Floricultural Society seeking co-operation in a plan to form a National Horticultural Society.

Prof. L. H. Bailey delivered a lecture on April 11 before the New York Botanical Society at the American Institute rooms, on the subject of landscape gardening.

Mr. P. Giatras sailed for Europe on Saturday, April 11.

Visiting New York: R. McDonald, Lenox, Mass., and Mr. Johnson of Dalton, Mass.

St. Louis.

The regular monthly meeting of the St. Louis Florists' Club was held Thursday afternoon, April 9, at 3 p. m., President Fillmore in the chair. The increased interest in the meeting was shown by the large attendance. A large number of fine roses were on exhibition, also some carnation blooms. C. A. Kuehn had on exhibition a fine lot of Brunners that were much admired, and E. W. Guy, of Belleville, Ill., a vase of as fine a lot of Kaiserins as ever seen. Brown & Canfield, Springfield, Ill., showed Siebrecht, Kaiserin, Perle, Bridesmaid and Meteors. Dr. Halsted, of Belleville, had some fine blooms of carnations and a mixed bunch of choice roses. F. J. Fillmore and Emil Schray had some well grown roses at the meeting. C. W. Wors showed a remarkably fine vase of Helen Keller carnations grown by Markey Bros.

The committee appointed by the president to look into the merits of the blooms on exhibition was as follows: R. F. Tesson, F. C. Weber and Julius Koenig, Sr. At the next meeting of the club Dr. Halsted, E. W. Guy and President Fillmore were requested to read essays. Dr. Halsted's essay will be on growing chrysanthemum blooms for exhibition, E. W. Guy on chrysanthemum plants for exhibition, and Mr. Fillmore's will be on chrysanthemum plants for the market.

The next meeting of the club will be a sweet pea meeting, and all members and others as well are requested to bring cut blooms of any kind for exhibition. Every meeting hereafter will be made as attractive as possible in order to bring the members out in full force. The blooms will be sold after the meeting at auction, the money to go for a special prize at the next chrysanthemum show. The question box was full and a great many queries were answered by those present.

After the questions the cut blooms were put up and auctioned by J. J. B., and they all brought good prices. The meeting then adjourned until Thursday afternoon, May 14.

Trade the week following Easter has been dull; a few large weddings kept some bus, but since nothing has been going on of any importance. Stock has become quite plentiful in most lines, and roses in particular, and a great glut is threatened. Prices have gone down on all stock except carnations; they seem to hold their own. Roses are sold in the wholesale market from \$1 to \$5 per hundred, and good stock at that. La Francis plenty; most of the stock offered is of medium size, clean and salable blooms, and of good color. Here and there a lot of extra fine blooms brings a fair price. Carnations are the only thing the wholesaler is sold out of after the morning rush. Day-break and Scott and some extra fine Garfield that come in find ready sale. Very little bulbous stock is seen now, many of the growers being cut out entirely. Some good Harrisii are still coming in. Valley is good and in demand, and brings \$3 and \$4. Violets are very scarce, the supply being far short of the demand.

Plant trade continue good, both local and shipping; the plant corner in the Union Market is full from top to bottom, and florists report good sales.

P. W. Von Bockleemann, proprietor of the Greene County Floral Nursery, White Hall, Ill., was a visitor last week.

Wm. Lingenbrink (Ellerd Floral Co.) will move in May from his present location, 525 Olive street, to across the way into Alexander's drug store. Mr. L. will fit up a fine store, having much more room at the new place. His fixtures will be white and gold.

The stock and fixtures of J. W. Steele & Co. were sold at auction Friday and brought good prices. A few Harrisii plants left over from Easter without any blooms on them sold for 50 cents each, but they were not bought by any florists. Very few florists were in attendance at the sale.

The bowlers went out Monday night to turn the tables on the the Magnolias, but the tables would not turn. The Magnolias with their big solid balls mowed them down just the same, and beat us by 300 pins. Some of our boys were not in shape to roll good games, Mr. Weber being sick, but came out and rolled. Five games were played and the score was as follows: Magnolias 5,349, Florists 5,049. Beneke made the best showing for the Florists, 938, and also the highest single game, 234. Schnit of the Magnolias was high man for his side; total 1,024, and highest single game 242. The boys took their defeat good-naturedly and all had a good time. J. J. B.

Philadelphia.

The old summer quotation "Is it hot enough for you?" has been revived and there are several severe cases of spring fever reported. There has certainly been a great change in the weather the past few days. At 10 p. m. Tuesday the thermometer registered 60° and through the next day it reached 80°. This temperature is beginning to tell on the stock, which is coming in, particularly roses, in great quantities. The price for regular lots in small quantities is not reduced much is yet, but large lots go at extremely low figures. Carnations do not seem to be over-plentiful and good stock still brings \$2, with \$2.50 to \$3 being asked

for the fancies. Cheaper grades sell at from 75 cents to \$1.50 per hundred. There is still a little bulbous stock about but it is nearly done, outside daffys are in and bring \$2 per hundred, good flowers. Valley sells at \$3. The price of the best teas is \$6 to \$8, Beauties, first grade \$3 per dozen, Jacques 8 to 10 per hundred, Brunners 3 to 4 per dozen. Small teas sell for \$2 to \$4 per hundred.

A look among the growers and handlers of Easter plants finds everybody fairly well satisfied, most all had a little too much of this or that, some grew too many hyacinths and some have a lot of pot roses left unsold; the stock of azaleas in from \$2 to \$3 sizes also seemed quite a good deal larger than the market would take, while of the \$1 to \$1.50 size there was not enough. With lilies it was a clean sweep and almost all the growers are preparing to increase their orders for Bermudas. The Harrisii and longiflorum types appear to be fast merging into each other and it is now quite difficult at times to say to which variety a flower belongs. There is no difference in the price of longiflorums over Harrisii in this city, as is the case in Boston and New York, and many more of the latter variety are grown in preference to longiflorums. The bedding plant men now have their tables crowded with young stock, which is being shifted as they get the room, they anticipate a busy season. Business in the stores the past few days has been very quiet and the hustlers have a great time disposing of their stock. Sweet peas are getting more plentiful and are now selling at from 1 to 1.50 per hundred.

There is talk of a good time up at Wissnaming one of these days soon, a club shoot, followed by a planked shad dinner is the program. The memory of a like occasion a year ago is not yet forgotten by the members lucky enough to be present. K.

Pittsburg.

It seems as if we were to do without any spring this season at all, for this week we have had real summer temperature, 84° several days in succession, and frost just prior to them, and evidently the people have a heavy attack of spring fever, as the florists are complaining of a dullness in business, and quietness also prevails in nearly all other branches of trade at present.

The club held the regular meeting on the 9th inst. The committee to arrange for a reception to Mr. Falconer reported everything would be in readiness for Thursday, 23d inst., our next regular meeting night; refreshments will be served in our own room. A full attendance is expected, as all wish to meet Mr. Falconer and assist in welcoming him. Mr. John O. C. von Schubert, foreman of Miss Klopfer's greenhouses, was elected a member, and Mr. David Smith proposed for membership. Mr. Boddington, with Pitcher & Manda, Short Hills, N. J., was a welcome visitor to the meeting.

Mrs. Chas. W. Kerr has opened a very nice store at Duquesne, about four miles above Homestead, for sale of cut flowers and plants. The outlook is very promising for her; at Easter she sold all her stock, and has done a good business right along since she commenced.

Beckert Bros., wholesale growers, Glenfield P. O., have dissolved partnership, Albert retiring to go into the oil business, and Mr. Theodore F. Beckert continuing, who will no doubt manage the business as successfully as heretofore; they have been among our most progressive grow-

crs, keeping fully abreast of the times, both as to houses and stock.

Harry, Mr. Dunlevy's son, who was so badly burned in the gas explosion a few weeks ago, has recovered enough to enable him to get about a little. Mr. Paul Bruno, who was burned at the same time, is not getting along so well, crypticlas having set in, but is not considered as in a serious condition.

Two large contracts were awarded last week by Director Bigelow to Edwanger & Barry and Thos. Mehan & Sons, they being the lowest bidders, for trees, shrubs and nursery stock for use in Highland Park, all to be delivered as rapidly as possible. Supt. Burke will now have something he has needed for a long time, and that is a "nursery" in his own park (Schenley having one of its own). When the other improvements contemplated are completed he will have one of the handsomest parks in the country. REGIA.

San Francisco.

Easter has come and gone again and every person is asking the same question: "How was trade?" Some very extensive preparations were made by some of the florists, and the general verdict is trade was as good as last Easter but none better. Harrisii seemed fairly plentiful a week before Easter, but the supply shortened up considerably. Many more could have been disposed of had they been in the market. Roses of every kind sold well, Beauties bringing \$3 per dozen, Testouts \$1.50 and nearly all other small roses from 75 cents to \$1 per dozen.

The plant trade did not amount to much, as it never does here at Easter time. Although quite a lot of spiraea was on hand the stores seemed to be pretty well cleaned out of it. Lilac was a glut on the market, but it will not last more than another week.

One of our principal growers of Harrisii for the San Francisco market told me that he does not intend to grow Harrisii another year. His reasons were that the low prices, diseased bulbs, and the competition of the Japs, who just flood the market with longiflorums, make it an unprofitable undertaking.

Violets are now a back number and no more are seen here. Carnations are getting very plentiful and cheap also.

The growers say that the shipping trade was not near so good as last Easter, there seeming to be a decided falling off in that line. Sweet peas are coming in slowly and as yet we have seen none of the newer sorts.

Coop & Seelig, the well-known violet growers of Ocean View, have removed their plant to San Carlos, where they have secured the old Britton place, which with increased facilities for their growing trade will be a permanent benefit.

R. Mann, of O'Farrell street, has moved his store from the Alcazar Theater to Pine street, near California.

Mr. E. W. McLellan, formerly of Laurel Creek, has purchased a block of land at Burlingame, where he has commenced the erection of 12 houses, each of 100x20 feet. This extensive plant will be devoted exclusively to the growing of roses, carnations, etc., for the market. Mr. McLellan will personally superintend the plant. In the meantime the place at Laurel Creek will be carried on as before.

The great crowds of visitors who have been visiting the Conservatory in Golden Gate Park the last few weeks have been treated to a fine exhibition of cinerarias. The cinerarias are now done blooming and are being removed to make place for

other plants. The outdoor cinerarias will begin to show their bloom in a short while. The azaleas in the greenhouse will probably last another week. The roses in the houses are not looking so well, but outside there is a perfect mass of bloom everywhere. The season for roses blooming outdoors in California extends over nearly ten months. The greenhouse display of roses lasts only a few months in the winter to bridge over the interval when the outside stuff is not in bloom.

They have just placed 200 potted coleus of different varieties on display also. They are particularly well grown and are proving one of the most interesting features in the conservatory. METEOR.

Chicago.

Like all the other large cities, Chicago has been demoralized this week by the sudden change to summer weather, and the flower market is in a very unsettled condition. The quality of stock has suffered greatly; roses are very flabby and pale, and an order for high quality stock causes a great deal of picking over. Prices keep fluctuating, and it is very hard to give any fixed rate. The best Beauties, fine flowers with long stems, are down to \$2 a dozen. Of the large teas the best stock is held at \$4 a hundred, and though some extra selected is sold at \$5 little seems to reach this figure. From this prices slide downward with alarming rapidity and we hear of some stock going as low as \$7.50 a thousand. A number of large shipping orders have been filled at \$10 and \$12 a thousand. A great many flowers have gone out of town, but a good many have found their way into the streets.

Carnations suffer also, nor do they seem to be in any active demand. In big shipping orders, amounting to thousands, they bring 60 cents, and fair average stock sells for 75 cents; from this the price ranges up to \$1.50 or \$2 for fancies. Some extra fine Morello from Hopp & Lemke were held at \$3 earlier in the week. Helen Keller is seen in fine quality. Lilac made its first appearance from outside on Thursday, and sold for 50 cents a bunch. Sweet peas are more plentiful, and the prices vary from 50 cents to \$1 a hundred. Bulb stock is still very quiet; valley is much scarcer than it has been, and brings \$3 to \$4; outdoor Dutch hyacinths from the neighborhood of Chicago have appeared, and outdoor daffodils are plentiful, with few buyers. Harrisii lilies bring \$4 a hundred; they are beginning to be crowded by longiflorum, which sells for \$5. Some of the beautiful white Marguerite centaureas have been sent in by Fred Timme; they are so delicately lovely that they ought to sell.

The greenhouses at Lincoln Park made a very attractive Easter display of flowering plants, including a quantity of calceolarias, which were very rich in color.

A. G. Prince & Co. intend moving from their present quarters about May 1, their new location being on the second floor of 88 Wabash avenue, which is rapidly becoming colonized by our wholesalers. Samuel Reubens, for several years with Kennicott Bros. Co. has now assumed a similar position with Prince & Co.

Recent visitors: S. Skidelsky, Philadelphia; P. Vos, Sassenheim, Holland.

Toronto.

There has been a good deal of business during this last week and the supply has been very large, but prices are somewhat reduced since Easter day.

The weather has turned very mild again and things at the market last Saturday looked pretty lively. This week promises well too, the Canadian Horse Show being in full blast. A large number of fashionable people will be in town including the Governor-General (Lord Aberdeen) and suite. Yellow and blue are the show colors. Violets are plentiful but daffs are likely to run short. E.

Boston.

On all sides reports indicate a brisk and satisfactory business since Easter. Warm, spring-like weather has set the plants abloom at a lively rate, and the stock coming in now is larger in quantity and better in quality than it has been for some weeks, but there is no difficulty in disposing of it with the present demand. There was quite a large remnant of un-bloomed lilies that were just too late for Easter, and these have been abundant at reduced prices. Carnations have come down to about one-half of their Easter figures, and roses have also dropped in price, but are not down to the slaughter figures prevailing in some past seasons at a corresponding date. Plant business has not started yet, owing to the extremely backward spring. Outdoor operations have been badly retarded from the same cause, and when it does open it will be with a rush.

On Saturday, April 11, there was an instructive lecture in Horticultural Hall by Wm. C. Bates on mushrooms. The lecture was illustrated by means of numerous stereopticon views, and the great interest taken in this subject by the public was evinced by the very large and enthusiastic audience which greeted the lecturer. On the exhibition tables were some very handsome displays of flowers and plants. James Comley showed some azalea plants and a miscellaneous collection of roses, peonies, wistaria and seedling carnations. Carl Blomberg had some pretty pond lilies, including nymphæa scutifolia, rubra and cærulea. Lawrence Cotter showed some magnificent blooms of rose Mrs. Whitney; A. H. Fewkes a plant of Spiraea astilboides floribunda, which by the way is the most beautiful of the genus for forcing; and from J. S. Fay came a superb collection of pansies. Edward Butler staged a group of well flowered angræcums, odontoglossoms and dendrobiums.

Considerable speculation is heard about town as to who shall be the next city forester, it being asserted that Mr. Doogue, who has held the position for nearly 20 years, will not be re-appointed. Several gentlemen are making an active canvass, and considerable influence, political and otherwise, is being brought to bear upon the mayor in the interest of the various aspirants, but at present writing it looks as if Mr. Doogue would be his own successor.

Visited Boston: Burt Eddy, representing J. C. Vaughan, and D. Macrorie, representing W. A. Manda.

St. Paul.

Trade since Easter has not been very lively. The weather has been wet and disagreeable, keeping the shoppers at home. The growers are busy getting their bedding stock repotted and their hot beds in order. Most stock is off crop now, and the cloudy, rainy weather has not benefited the quality of the flowers.

The stock of the assigned firms, L. G. Venzke and De Cou & Co., has been consolidated, and birds and blooms seem to go well together.

The assignee of L. G. Venzke is offering the entire stock, including greenhouses and lease of ground on which they stand, for sale. As the property is not advantageously situated it will not sell readily.

Recent callers: P. J. Goemans, representing K. J. Kuyk, Mr. Waaran, of Van Heemstra & Co., and Mr. Rolker of New York.

FELIX.

San Jose, Cal.

The Easter trade was not large by any means. This place has the reputation of having the worst Easter trade of any large city around San Francisco. The season here being so mild all the outside stuff, such as callas, lilac, and the like, were plentiful in the private gardens, so that the buying public did not have to patronize the florists. Some of the florists are making quite extensive preparations for the carnival of roses next month. We hear that some of the growers here are going to have stands on the streets during that week.

Mr. G. A. Lehmann has an immense crop of carnations now, but he claims that there is nothing in them at all. Portia, Scott and McGowan are his standard sorts.

Mr. E. H. Bourguignon, the rose grower, is going to try his hand at literature. He, in company with Mr. Bourns, has begun the publication of a monthly magazine, the *California Garden*. It is edited by Imogene E. Johnson, of Los Gatos.

Mrs. R. H. Dunlop, of West San Fernando street, intends to give up her store in June, as business is not up to the standard.

Mr. Navlet's store presents a fine appearance, the window display being particularly striking. Genial Mr. Parson's store also has its usual display of high-class roses and carnations, and that gentleman reports trade as growing rapidly.

METEOR.

RICHLAND CENTER, PA.—Frank Sorver has entered the business here raising flowers, etc., for a local trade.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By a competent young man, single, steady and sober. Address
ILLINOIS, care American Florist, Chicago.

SITUATION WANTED—By a first-class competent man as florist and gardener; private place in country. Address
M P, care Am. Florist.

SITUATION WANTED—By competent florist and gardener, on private place.
R W,
417 E. St. Catherine St., Louisville, Ky.

SITUATION WANTED—By an experienced florist; 22 years old; life long experience. Private place preferred. Address
C F, care American Florist.

SITUATION WANTED—Store work; thoroughly competent man; many years' experience. First-class designer. Low wages. Address
FLORIST,
1026 Forest Ave., E. Walnut Hills, Cincinnati, O.

SITUATION WANTED—By 1st of May, by a good greenhouse hand; single; good habits. Please state wages given. Address
F. HILL, 120 Bank St., Waterbury, Conn.

SITUATION WANTED—As foreman and grower of roses, carnations, violets, palms and all kinds of florists stock. Married. References. Address
GEO. NORTON, 24 Chatham St., Rochester, N. Y.

SITUATION WANTED—By a first-class grower of cut flowers; single; 20 years' experience; good worker. The best of references as all round man. E. KNOBE, care Gude Bros, F St., Washington, D. C.

SITUATION WANTED—As foreman, where first quality roses are wanted, and where rose growing is a specialty. 20 years' experience; American; single. First-class references. Address
SPECIALIST, care American Florist, Chicago.

SITUATION WANTED—By florist; middle age, family man. First-class salesman, and maker-up of experience for many years. Would like permanent position. Can produce best references. Hard worker, without expectation of fancy wages. Address
OTTO JAHN, 101 E. 12th St., New York.

WANTED—Second-hand hot water heater. Must be in first-class order. Spence No. 3 preferred.
M & S D, Albion, Mich.

WANTED—One good young man for work around greenhouses. Address
A. PAULI,
Crown Hill Cemetery, Indianapolis, Ind.

WANTED—To lease for a term of years greenhouses with some land attached; must be in or near Chicago. Address
CLOUSTON, care Am. Florist.

WANTED—A man who understands how to raise vegetables for home use, on a large farm. Address
ELK VALLEY FARMING CO., Larimore, N. Dak.

WANTED—Single man with some knowledge of bedding and general greenhouse work, to work under foreman. Steady job for right man.
CHABR & HUNTER, Grand Rapids, Mich.

WANTED—Two single men, well-up in growing cut flowers and plants. Steady place to good men. Answer at once, stating wages expected with board.
C. H. FREY, 1131 O St., Lincoln, Neb.

WANTED—A young man, single, who understands roses, carnations and general stock. Must be sober and industrious. Address
R. S. RASMUSSEN, 100 Bank St., Waterbury, Conn.

FOR SALE—Three greenhouses with stock, and all belonging to it, very cheap. Address
W S P, care American Florist.

FOR SALE—Five greenhouses, each 30 feet long; shed 12x30 with two living rooms, hot water; town 3000 people, situated 1 1/2 miles from San Francisco; 20 trains daily; finest climate known. Address
A B, care American Florist.

FOR SALE—Two greenhouses, one 2x100, one 16x100, hot water; 3 acres fine land inside city limits; well stocked for spring sales; growing town of 6000, with four towns around and no greenhouses.
NICK GREIVELDING, Sparta, Wis.

WANTED.

The residents of a wealthy suburb of Pittsburgh, desire a capable and energetic gardener to establish a small fruit and vegetable garden to supply them with its products, for which prices in advance of market rates will be paid. To a man properly recommended, some capital will be advanced and his expenses will be paid to Pittsburgh to look over the ground. Address
J. WILKINSON ELLIOTT, Pittsburgh, Pa.

WANTED.
CYPERUS AND SMILAX PLANTS.
WISCONSIN FLOWER EXCHANGE,
MILWAUKEE, WIS.

NEW BISMARCK APPLES.
1 and 2 years old.
CH. KOEHLER, Five Points Nursery,
Oxford Church P. O., Phila., Pa.

FOR SALE. EVERGREEN LODGE, Clarksville, Tenn.

On May 22nd, 1896, we will sell at public auction, if not sold privately before that date, this valuable property. This is the finest property of the kind in the South, and a large trade is already established throughout the Southern States. The property consists of eight acres of beautiful grounds, excellent improvements, six first-class greenhouses, well supplied with all modern equipments, one chrysanthemum house. These greenhouses are not excelled by any to be found in the South or elsewhere.

A fine opportunity is here offered to any one wishing to engage in the floral business. Correspondence solicited. Terms one-fourth cash, balance in six, twelve and eighteen months, secured by a lien.

CLARKSVILLE, TENNESSEE.

PAYNE & SAVAGE, Trustees.

PALMS

Latania Borbonica.

Per doz.

Fine plants from 6-inch pots, 7 good leaves

18 to 20 inches high, well grown. . . . \$9 00

Fine plants from 5-in. pots, 5 to 7 good leaves,

15 to 18 inches high, clean stock. . . . 6 00

They are strong rooted and will pack light.

Prices on all smaller sizes on application.

COLEUS.

Strong rooted cuttings, Golden Bedder, Verschaffeltii, Autumn Glow, and Nellie Grant, 60c per 100; \$5.00 per 1000, by express. Cash with the order.

LEMON VERBENAS, \$1.50 per 100.

CHRYSANTHEMUMS, good sorts, \$1.50 per 100; \$10.00 per 1000.

B. P. CRITCHELL'S SONS,
CINCINNATI, O.

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address **GEORGE WITTBOLD,**
1708 N. Halsted St., CHICAGO.

100,000 ROSES. 100,000

Here is the chance to get your money's worth. Write for quotations and have lists priced.

Address **NANZ & NEUNER, Louisville, Ky.**
CATALOGUES FREE.

Plant Auction.

SALES EVERY TUESDAY AND FRIDAY
THROUGHOUT THE SEASON.

A. & F. RÖLKER, Auctioneers.
106 Liberty Street, NEW YORK.

NEW CALIFORNIA CHRYSANTHEMUM GOVERNOR BUDD

NOW READY. The Queen is justly pronounced the queen amongst 'mums. Governor Budd is identical in shape, size, and fine dash of blooms; in growth it is also very similar. If anything, more vigorous and with stronger flower stems. It is only in color it differs from its parent The Queen, being of a lovely shade of lemon yellow. Certificate by the California State Floral Society. 50c each; \$5 per dozen. Cash with order.
J. A. CARBONE, West Berkeley, Cal.

CLEMATIS.

Two years, all large flowering, choice named, leading kinds. . . . \$2.50 \$20.00
Strong, heavy plants. . . . 35c each, 4.00 30.00
H. P. Roses, 2 years, 4-inch pots. . . . 1.50 10.00
Paeonies, named in 10 choice sorts. . . . 1.25 8.00
Daisies, Dbl. Eng. Snowcrest, Snowflake .50 1.00

F. A. BALLER, BLOOMINGTON, ILL.

MARIE LOUISE VIOLETS.

ROOTED RUNNERS, immense quantity, absolutely free from disease. \$6 per 1000. for cash only. Samples free.

WM. CLARK, Colorado Springs, Colo.

Cacti, Orchids, Bulbs.

Special Introduction Offers, prepaid.
ORCHIDS—5, good for cut flowers, \$2.50; 10 for \$1.00.
CACTI—20 for \$1.50; 30, \$3.00; 40, \$5.00; all different.
BULBS—For full delivery. List on application.
Remit stamps or Express Money Order.
J. A. McDOWELL & CO., City of Mexico.

2c. ROSES

The best stock ever offered. Extra strong 2½-inch plants.

THIS LIST \$20 PER 1000, \$2.50 PER 100:

Mary Washington	La Pactole
Mrs. DeGraw	Mme. Bravy
Reine Marie Henriette	Melville
Striped La France	Marquis de Vivens
White La France	Mme. Pauline Labonte
Mme. Watteville	Sappho
Mme. F. Kruger	Miss Wenn
Safrano	Agrippina

Marie Lambert

\$25.00 PER 1000, \$2.75 PER 100:

Maman Cochet	Queen
Marchal Niel	Folkstone
Mme. Welche	Hermosa
Climbing Perle	Bridesmaid
Pierre Guillot	Duchess Brabant

Crown Princess Victoria

Write for prices on all other varieties. Terms cash with order.

THE NATIONAL PLANT CO., Dayton, O.

ROSES ROSES

Forcing Roses, Everblooming Roses, New Roses, Hybrid Roses, Polyantha Roses, Climbing Roses, Noisette Roses, in fact all kinds of Roses. Chrysanthemums, Carnations, Geraniums, Fuchsias, Cannas, Coleus, Hibiscus, Begonias in fact a general line of all kinds of plants for Florists' use. Our trade list now ready. Send for it.

WE ARE THE
LARGEST ROSE
GROWERS IN
THE WORLD.

The Good & Reese Co.

CHAMPION CITY GREENHOUSES, Box 2,
SPRINGFIELD, OHIO.

ROSES.

K. A. Victoria, per 100, \$4.00.
Albany, Cornelia Cook, Hermosa, C. Riza du Parc, Martha du Bourg, Meteor, Triumph de Pernet Pere, Bride, Bridesmaid, White La France, Striped La France, Gontier, La Princess Vera, Gen. Tartas, Safrano, Soupert, Henry Stanley, Mrs. Degraw, Devoniensis, M. Guillot, Crown Princess Victoria, \$3 per 100; \$27 per 1000. Chas. Rovolli, Queen's Scarlet, Snowflake, Caroline Goodrich, Mary Washington, \$2.50 per 100.

Our selection from the above, in good assortment, per 1000 \$25.00.

H. P. and MOSS, suitable for 4 and 5-inch pots, dormant, per 100, \$6.00.

H. P., 2½-inch pots, dormant, strong, in good assortment, per 100, \$4.00.

THOS. A. McBETH, Springfield, O.

Rogers Park Floral Co.

GOOD FIRST-CLASS STOCK.

In 2½-inch pots.	per 100	per 1000
Am. Beauties.....	\$5 00	\$40 00
C. Testout.....	6 00	50 00
Kaiserin Victoria.....	4 00	35 00
La France.....	4 00	35 00
Belle Siebrecht.....	6 00	50 00
Bridesmaids.....	3 00	25 00
Brides.....	3 00	25 00
Perles.....	4 00	35 00
Meteors.....	3 00	25 00

Orders for less than 100 not accepted. Ready for shipment now.

Send Orders to 41 Wabash Ave., Chicago.

REINBERG BROS.,

Offer the Following Stock for Spring Planting:

Roses in 2 1-2 inch pots.

	Per 100	Per 1000
AM. BEAUTIES.....	\$5.00	\$40.00
METEORS.....	3.00	25.00
KAISERIN VICTORIA.....	4.00	35.00
GOLDEN GATE.....	5.00	
BRIDES.....	3.00	25.00
PERLES.....	3.00	
BRIDESMAID.....	3.00	25.00
C. TESTOUT.....	4.00	35.00
BELLE SIEBRECHT.....	4.00	35.00

Orders for less than 50 of any one variety not accepted. READY FOR SHIPMENT.

Rooted Carnation Cuttings.

	Per 100	Per 1000
LA FRANCE.....	\$3.00	\$25.00
LIZZIE GILBERT.....	3.00	25.00
LIZZIE MCGOWAN.....	1.00	8.00
STORM KING.....	3.00	25.00
DAYBREAK.....	1.00	8.00
TIDAL WAVE.....	1.00	8.00
WM. SCOTT.....	1.00	8.00
PORTIA.....	1.00	8.00

Free of rust. Ready for immediate shipment. Orders for less than 100 of any one variety not accepted.

Send orders to **51 Wabash Ave., CHICAGO, ILL.**

ROSES.

Ready for immediate shipment; extra strong and clean; from 2 1-2 in. pots.

CLOTHILDE SOUPERT,
THE NEW PINK SOUPERT,
PERLES,
LA FRANCE,
BRIDES,
SUNSET,
BRIDESMAID,

\$4.00 PER 100.

Write for prices on large lots.

BEDDING ROSES in 20 varieties, our selection, per 100, \$3.00.

CARNATIONS—ROSE QUEEN and ALASKA, from soil, per 100, \$4.00.

WILLIAM SCOTT, per 100, \$2.00; per 1000, \$15.00.

GREENHOUSES, WESTERN SPRINGS, ILL. **VAUGHAN'S SEED STORE,** 84 & 86 RANDOLPH STREET, CHICAGO.

ROSES

BEAUTIES, MERMETS, CUSINS, TESTOUTS, NIPHEON, PERLES, BRIDES, BRIDESMAIDS, METEOR, HOSTE, LA FRANCE, WOOTTON, WATTEVILLES, AUG. VICTORIA. Rooted Cuttings. Cash with order. Owing to number booked, they will be executed in rotation to assure prompt delivery. Order early.

Address for quotations, **VILLA LORRAINE ROSERIES, MADISON, NEW JERSEY.**

NOW

is a good time to secure a strong healthy stock of the

CELEBRATED NEW ROSE

MRS. PIERPONT MORGAN

which has unmistakably grown in popularity as the season advanced.

Prices for strong plants ready for immediate delivery are as follows:

From 2-inch pots.....	per 1000, \$125.00
" " ".....	per 500 65.00
" " ".....	per 100 15.00
" " ".....	per 50 8.00
" " ".....	per 12 2.25
From 3-inch pots.....	per 100 18.00
" " ".....	per 50 10.00
" " ".....	per 12 2.50

Money Order Office, **EDWIN LONSDALE,**
Station H, Phila.
Wyndmoor, Chestnut Hill, Phila.

Home of the Queen of Roses.

BELLE SIEBRECHT.

READY APRIL 1st.

Send in your orders early; the demand is great. The finest pink ROSE ever introduced.

2-inch pots.	\$12.00 per 100
2-inch pots.	55.00 per 500
2-inch pots.	100.00 per 1000
3-inch pots.	18.00 per 100

NOTICE:—All orders filled in strict rotation.

SIEBRECHT & WADLEY,

Rose Hill Nurseries, NEW ROCHELLE, N. Y.

A FINE LOT OF

**Meteors,
American Beauties
and Perles,**

Now ready. In 2-inch pots. Write for sample and prices to

GEO. A. KUHL, Pekin, Ill.

BRIDESMAIDS.

My young plants are very fine.

SO, ALSO
ARE MY **METEORS.**

Please write, stating just how many you want, and I will quote you a bargain.

FRANK L. MOORE,

Originator of the BRIDESMAID Rose,

CHATHAM, NEW JERSEY.

ROSES. NOW READY.

First-Class Stock, 2½-inch pots.

	Per 100	Per 1000
BEAUTIES.....	\$4.50	\$40.00
PERLES.....	3.50	30.00
METEORS.....	3.00	25.00
BRIDES.....	3.00	25.00
BRIDESMAIDS.....	3.00	25.00
WOOTTONS.....	3.00	25.00

A. G. PRINCE & CO.,

41 Wabash Ave., CHICAGO.

Roses.

BRIDES, BRIDESMAIDS and MERMETS \$3.50 per 100; \$30.00 per 1000.

AMERICAN BEAUTIES, \$5.00 per 100; \$40.00 per 1000. Strong, healthy stock. 25 at 100 and 250 at 1000 rates. Cash with order.

R. F. TESSON,

West Forest Park, ST. LOUIS, MO.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.
Subscriptions accepted only from those
in the trade.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
wares pertaining to those lines ONLY. Please to
remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to se-
cure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

THE NEWS comes from England of the
death of George Gadd of Liverpool on
March 10. Mr. Gadd has for many years
supplied some of the largest dealers in
this country with mistletoe for Christmas
trade.

THE Fishkill Standard, of Fishkill-on-
Hudson, N. Y., devotes four columns on
the front page of its issue of April 11 to
an illustrated article descriptive of Mr.
Benj. Hammond's "slugshot" works,
under the heading "local industries." An
excellent portrait of Mr. Hammond is in-
cluded.

WHILE our Easter trade reports show
a very gratifying condition of affairs
under the circumstances, they cannot
compete with the reports in the daily
press. From this reliable (?) source we
learn that the Philadelphia florists sold
"something like \$500,000" worth of
Easter flowers and plants, and that the
receipts of one retail florist amounted to
"more than \$22,250." How happy the
Philadelphia boys would be if it was only
true!

THE DAHLIA is the title of a monograph
by Laurence K. Peacock, the dahlia
specialist, and secretary of the American
Dahlia Society. This is, we believe, the
first American book devoted to this
flower. It contains much valuable cul-
tural matter, and the select list of varie-
ties, with descriptions, will be of great
service. It is freely illustrated with fine
half-tones. This is certainly a valuable
addition to gardening literature, and will
be very serviceable to florists generally,
as well as amateurs. (W. P. Peacock,
Atco, N. J., publisher. Price 50 cents,
stiff paper cover.)

WISCONSIN FLOWER EXCHANGE, CUT FLOWERS, Palms, Ferns and Growers' Stock.

FLORAL ARRANGEMENTS, STORAGE
AND COMMISSION.

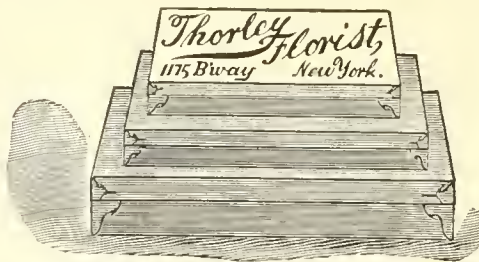
Box S7. MILWAUKEE, WIS.

Mention this paper.

MILLANG & WINES, WHOLESALE FLORISTS,

501 Sixth Avenue,
CORNER 30TH ST., NEW YORK.
Consignments Solicited.

Please mention the American Flo-
rist every time you write any of the
advertisers on this page.



The boxes as they appear when set up for use.

We make them in a sufficient number of sizes, including for violets, to meet all necessary requirements.

THE NATIONAL FOLDING BOX & PAPER CO.,

NEW YORK SALESROOM:
132 & 134 Franklin Street.

315--325 Congress Ave., NEW HAVEN, CONN.

COMPLETE LINE OF SUPPLIES
WIRE WORK
— WE —
MAKE —
IT —
IMPORTERS
OF
BULBS
PHONE 1273
BOX 75
ALWAYS
ON
HAND
FINE STOCK
CUT FLOWERS
ELLIS & POLLYWORTH
MILWAUKEE
WIS.

W. ELLISON,
WHOLESALE
Cut Flowers & Florists' Supplies
WIRE DESIGNS.
1402 PINE STREET.
— St. Louis, Mo.

C. A. KUEHN,
(Successor to ELLISON & KUEHN.)
Wholesale Florist,
1122 PINE STREET,
— ST. LOUIS, MO.
A complete line of Wire Designs.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

The Boston Flower Market

is prepared to purchase, on order, and
ship Trade orders for Cut Flowers at
prices ruling in the market on day of
sale. TERMS STRICTLY CASH.

Address WM. J. KENNEDY, Mgr.,
Flower Market, Park St., BOSTON, MASS.
Long Distance Telephone "Haymarket 83."

DAN'L B. LONG,
FLOWERS AT WHOLESALE.
Strictly Commission Business.
SUPPLIES, ETC.
LISTS FREE. BUFFALO, N. Y.

A. & F. RÖLKER,
Down-town Wholesale Florists,
106 & 108 Liberty Street (Basement),
NEW YORK.

PLEASE mention the AMERICAN FLORIST
every time you write to an advertiser.

"The National"

Folding Flower Boxes are the best
and most convenient ever put upon
the market. They are made from
board, manufactured especially for
these goods, and made so as to resist
moisture, thereby keeping the flow-
ers fresh, and the box holding its
shape.

THE NEW YORK CUT FLOWER CO.,

119 and 121 W. 23rd St., and
112 and 114 W. 24th Street,

IS NOW
OPEN FOR BUSINESS.

The Largest Dealers in

CUT FLOWERS
IN THE WORLD.

Handling flowers of all kinds in quantity
we are in a position to fill shipping orders
promptly. We shall give careful attention
to this branch of the business, and solicit
your patronage.

WHOLESALE
FLORISTS
JOEBERS IN
FLORISTS'
SUPPLIES;
FLORISTS'
VASES.

METS,
BRIDES,
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.

84 Hawley Street,
BOSTON, MASS.

HORTICULTURAL AUCTIONEERS.

Always mention American Florist.

WELCH BROS.,
Wholesale Florists,

NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.

Asparagus Plumosus Nanus.

Cut Strings, 8 to 10 feet long,

50 CENTS.

W. H. ELLIOTT, Brighton, Mass.

SAMUEL S. PENNOCK,
Wholesale Florist

1612 & 1614 BARKER STREET,
Bet. Market & Chestnut, PHILADELPHIA, PA.

E. H. HUNT, WHOLESALE FLORIST

68 Lake Street, CHICAGO.

WHOLESALE CUT FLOWERS.

SEEDS, BULBS AND ALL
FLORISTS' SUPPLIES

KENNICOTT BROS. CO. Wholesale Cut Flowers and FLORISTS' SUPPLIES, 88 Wabash Avenue, CHICAGO.

Winter & Glover, Successors to T. J. CORBREY & CO. Wholesale Commission Florists 59 Wabash Ave., CHICAGO.

If you want First-Class Flowers, properly packed and delivered on time, send us your orders and you will get what you want.

We are now prepared to furnish Florists' Wire Designs and a full line of Florists' Supplies.
WRITE US FOR OUR ILLUSTRATED CATALOGUE.

Bassett & Washburn, Successors to J. B. DEAMUD & CO., CROWERS and WHOLESALE DEALERS in CUT FLOWERS, 88 Wabash Avenue, CHICAGO. HEADQUARTERS FOR AMERICAN BEAUTIES.

Reinberg Bros. WHOLESALE CUT FLOWERS, 51 WABASH AVENUE, Telephone Main 4937, CHICAGO.

Our Roses best them all, in quality.
Headquarters for fine American Beauties.

W. E. LYNCH, WHOLESALE CUT FLOWERS, Wire Designs a Specialty. 59 WABASH AVENUE, CHICAGO.

ROGERS PARK FLORAL CO., Wholesale Growers of CUT FLOWERS, 41 WABASH AVENUE, CHICAGO.

We are prepared to fill your orders with first-class flowers. Give us a trial order.

A. G. Prince & Co. WHOLESALE COMMISSION FLORISTS, 41 Wabash Avenue, Telephone Main 3208. CHICAGO.

Consignments solicited. Prompt attention to all orders.

FLOWERS at RETAIL.

We are prepared to fill orders—received by mail or telegram—for Cut Flowers, etc., to be delivered in Cincinnati and suburbs or nearby towns.

Customary discount to the trade.

HUNTSMAN & CO., 615 Race Street, CINCINNATI, O.

Wholesale Markets.

Cut Flowers.

NEW YORK, April 14.	
Roses, Beauty.....	5.00@25.00
" Niphetos Perle.....	1.00@3.00
" Cusin, Watteville.....	1.00@4.00
" Bride, Bridesmaid.....	2.00@6.00
" Meteor.....	2.00@6.00
" Testouts, Morgan.....	2.00@8.00
" Jacq's.....	1.00@8.00
" 113 per perpetual.....	10.00@20.00
Carnations, ordinary.....	1.00@2.00
" fancy.....	2.00@4.00
Sweet peas.....	.75@1.00
Violets.....	.25@.50
Valley.....	1.00@3.00
Daffodils, Tulips.....	1.00@2.00
Harrisli.....	1.00@6.00
Mignonette.....	2.00@6.00
Lilac, per bunch.....	50@75
Adiantum.....	75@1.00
Asparagus.....	50@60
Smilax.....	20.00@25.00

BOSTON April 14.	
Roses, Gontier, Niphetos.....	2.00@3.00
" Perle, Mermet.....	3.00@4.00
" Bride, Bridesmaid.....	4.00@8.00
" Meteor.....	4.00@8.00
" Jacq's.....	6.00@12.00
" Beauty.....	70.00@25.00
" Brunner.....	10.00@25.00
Carnations.....	1.00@2.00
" fancy.....	2.00@3.00
Violets.....	50@75
Valley.....	2.00@3.00
Longitorm, Callas.....	6.00@8.00
Daffodils, tulips.....	2.00@3.00
Mignonette.....	2.00@3.00
Adiantum.....	1.00
Smilax.....	17.00@25.00
Asparagus.....	50.00
Primroses per dozen bunches.....	1.00@1.50

PHILADELPHIA April 15.	
Roses, Beauties long.....	25.00
" medium.....	8.00@9.00
" short.....	4.00@6.00
" Brunners.....	3.00@4.00
" Brides, Bridesmaid, La France etc.....	6.00@8.00
" Kalsen.....	3.00@6.00
" small teas.....	2.00@4.00
Carnations, fancy.....	2.50@3.00
" first quality.....	1.00@2.00
" seconds.....	.75@1.00
Violets.....	.50@.75
Sweet peas.....	1.00@1.50
Harrisli.....	6.00@8.00
Daffodils.....	2.00@3.00
Smilax.....	15.00@20.00
Asparagus.....	35.00@50.00
Adiantum.....	50.00

CHICAGO, April 17.	
Roses, Beauties.....	8.00@16.00
" seconds.....	4.00@6.00
" Brides, Bridesmaid.....	3.00@4.00
" extra select.....	5.00
" Meteors.....	3.00@5.00
" Perle, Gontier.....	1.00@2.00
" Testout.....	4.00@8.00
" Morgan, Siebrecht.....	2.00@4.00
Carnations.....	.75@1.25
" fancy.....	1.50@2.00
Antirrhinum.....	6.00@8.00
Harrisli.....	4.00
Longitorm.....	5.00
Valley.....	3.00@4.00
Violets.....	.40@.75
Tulips daffodils.....	1.00@2.00
Narcissus, single.....	1.00@1.50
Hyacinths, Dutch.....	2.00@4.00
Mignonette.....	1.00@2.00
Sweet peas.....	.50@1.00
Marguerites.....	.50@.60
Lilacs.....	per bunch 50c
Smilax.....	18.00@22.00
Adiantum.....	1.00

ST. LOUIS, April 15.	
Roses, Beauties long.....	25.00@35.00
" short.....	8.00@12.00
" select stock.....	6.00@8.00
" general stock.....	5.00@8.00
Carnations fancy.....	2.00@3.00
" ordinary.....	1.00
Valley.....	3.00@4.00
Harrisli.....	8.00@10.00
Callas.....	8.00@12.00
Romans.....	3.00@4.00
Daffodils double.....	3.00
Tulips.....	2.00@4.00
Violets.....	.25
" double.....	.50@.75
Lilacs.....	6.00@12.00
Smilax.....	15.00@18.00
Sweet peas.....	1.00@1.50

BUFFALO, Apr. 15.	
Roses, Beauties.....	15.00@30.00
" Meteors.....	5.00@8.00
" Bridesmaid, Mermets, Bride.....	5.00@8.00
" Cusin, Perle.....	5.00@6.00
Carnations, fancy.....	2.00@3.00
" common.....	1.25@1.50
" short.....	1.75
Harrisli.....	10.00@12.00
Callas.....	8.00@10.00
Romans.....	3.00
Valley.....	4.00
Violets.....	.60@.75
Tulips.....	3.00
Daffodils.....	3.00

GEORGE A. SUTHERLAND, Successor to PECK & SUTHERLAND, Successors to WM. J. STEWART, Cut Flowers and Florists' Supplies WHOLESALE. 67 Bromfield St., BOSTON, MASS. New England Agent for the GREAT ANTIPEST.

John I. Raynor, 49 WEST 28th STREET, NEW YORK.

SPECIAL EXTRA STOCK OF
AM. BEAUTY, METEOR,
BRIDESMAID, BRIDE.

DISBUDDED CARNATIONS.
FANCY GRADE.

Finest MIGNONETTE in the world.

THOS. YOUNG, Jr. Cut Flowers, WHOLESALE, 43 W. 28th Street, NEW YORK.

WALTER F. SHERIDAN, WHOLESALE FLORIST 32 West 30th Street, NEW YORK.

Roses Shipped to all points. Price list on application

Edward C. Horan, 34 W. 29th Street, NEW YORK, WHOLESALE • FLORIST.

Careful Shipping to all parts of the country.
Price list on application.

Purdy & Blauvelt, WHOLESALE DEALERS IN CUT FLOWERS, 57 W 30th St., NEW YORK.

JOHN YOUNG, FINE ROSES WHOLESALE, 51 West 28th St., NEW YORK.

FRANK MILLANG, CUT FLOWERS, WHOLESALE, COMMISSION, 408 E. 34th Street, NEW YORK.

THEO. ROEHRs, WHOLESALE FLORIST 111 WEST 30TH STREET, Established 1879. NEW YORK CITY.

JULIUS LANG, (Formerly with THEO. ROEHRs.) Commission Dealer in Cut Flowers, WHOLESALE, 53 West 30th St., NEW YORK CITY.

The Seed Trade.

AMERICAN SEED TRADE ASSOCIATION.

S. B. BRIGGS, Pres.; T. W. WOOD, 1st Vice-Pres.; ALEX. RODGERS, 2nd Vice-Pres.; A. L. DON. 111 Chambers St., New York. See 'y and Treas. The fourteenth annual meeting will be held at Niagara Falls, N. Y., June 9 to 11, 1896.

E. S. HARNDEN is reported to have resigned his position with L. L. May & Co. and taken that of inspector of the vegetable seeds now being put up by Messrs. Landreth & Sons, at Bristol, Pa., for the Department of Agriculture.

THE DAILY PRESS reports are very full of details regarding the charges against Secretary Morton by The Northrup, Braslan, Goodwin Co. It is doubtless in order for the department to explain why the contracts were awarded at a price \$11,000 above the lowest bidder, in the face of the very severe conditions as to germination and purity required by the Secretary's original circular, and in the face of the further fact that a certified check to the amount of 10 per cent of the bid was in the secretary's hands. Some other conditions required by the circular, and which are alleged to have been since waived, should be satisfactorily explained at the same time.

San Francisco.

Again we have been visited by splendid warm rains, which are helping the growing crops immensely. We note that the blight is making its appearance at this date in the onions, but at this early period it is difficult to ascertain the amount of damage likely to be done.

The later sowings of lettuce are coming up well and will be greatly benefited by these rains. Sweet peas, strange to say, in some localities are not looking so well. We notice that there is a pest attacking them at the roots destroying the whole plant. METEOR.

Syracuse, N. Y.

The many friends of our genial and efficient Park Superintendent, Thomas Bishop, will be pleased to learn that in spite of much political wire-pulling he will retain his position.

The members of the Central New York Horticultural Society will on April 17 give the first of a series of object lessons and practical talks at the Business Men's Association rooms. The following is the program: Potting plants and sowing seeds, D. Campbell; the care of lawn and shrubbery, Thos. Bishop; window gardening, H. Youell; insects on plants and insecticides, R. Bard; watering and fertilizers, P. R. Quinlan. H. Y.

LANSING, MICH.—Easter trade was about 25% greater than last year. C. S. FitzSimmons has opened a cosy little store on the main street. He is also building another small house and a few hundred feet of cold frames. A double calla has attracted some little attention in one of his greenhouses lately.

NOVELTIES FOR THE TRADE.

New Asparagus Sprengeri 30c. New Spiraea Anthony Waterer 25c. New Climbing Meteor Rose 30c. New Golden Rambler, Yellow Souper, New Crimson Rambler 85 per 100. New Justicia. New Double Rudbeckia. New Cannas. Carex Japonica. Bougainvillea. Gladioli. Dbl. New Life Geranium. Geranium Agnes Kelway. best pink. Send for Catalogue of Novelties and Trade Bulbs at low prices. A. BLANC & CO., Japanese Jirdliners at very low prices. List free. Philadelphia, Pa.

Mention American Florist.

The Sydicate of Cultivators of Flowering Bulbs at Ollioules, France, hereby have the honor of informing their numerous patrons, also the seedsmen, horticulturists, and others, that Messrs. S. Vidal and C. Mertz no longer form part of said Syndicate—one in the capacity of manager, the other as representative.

The Syndicate of Cultivators treat *directly* for the sale of all sorts of Bulbs, especially for White Roman Hyacinths, and will send immediately their current prices to all persons who apply therefor. The Syndicate has for Sole Agent of sales, MR. F. PHILIP, 31 Cours Lafayette, TOULON, FRANCE.

VAN ZANTEN & CO.

HILLEGOM, near Haarlem, HOLLAND,

Headquarters for High-grade Dutch Bulbs.
Finest and Largest Stock of best Forcing
Bulbs. Prices very low for First Quality.

Ask for Wholesale Price List to

MR. S. ASCHER, 16 and 18 Exchange Place, NEW YORK.

A SMALL STOCK ONLY.

Now on Hand:

DOUBLE PEARL TUBEROSES, large size, good quality, solid and well ripened, \$1.50 per 100; \$10 per 1000.

(250 at 1000 rate.)

Large No. 2 Bulbs, 75c. per 100; \$5.00 per 1000.

GLADIOLUS, CALADIUMS, AND OTHER BULB STOCK.

CATALOGUE FREE.

DAN'L B. LONG, Jobbing Florist, BUFFALO, N. Y.

A DAISY THAT SELLS

25 rooted cuttings of my new yellow Marguerite for \$2, by mail.

Nice 2-inch pot plants, ready for shift, 10 for \$1. It is a pleasing shade of yellow, very floriferous, with a double row petals, and stems 8 to 10 inches long.

Brides and Bridesmaids, 2 1/4-inch pots, \$4 per 100.

Fishers in 2-inch, \$2 per 100.

ALL AT STOCK.

Sample flowers mailed on receipt of 10c.

CASH WITH ORDER.

F. BURKI, Bellevue, Pa.

PANSIES.

-- THE JENNINGS STRAIN --

of finest American grown Pansies from cold frames, fine stocky plants grown 5 inches apart; will be in bud and bloom April 1st. Stock the finest.

Cash with	Price per	100.....	\$ 2 00
order,	" "	500.....	7 50
	" "	1000.....	15 00

E. B. JENNINGS, L. B. 254, Southport, Conn.

— Grower of the finest strain of Pansies.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

Mammoth Verbenas.

New, large-flowered, very fine quality.
Per Ounce, \$1.50.

CHOICE FLOWER SEEDS For Florists.

Price List free on application.

HERRMANN'S SEED STORE,

413 E. 34TH STREET,

Near Long Island Ferry, NEW YORK.

TOKIO
NURSERIES,
HEADQUARTERS
FOR.....

Japan Lilies,
Plants, Seeds
ETC.

Write for Catalogue.
TOKIO NURSERIES
KOMAGOME,
TOKIO, JAPAN.
Cable Address:
"NURSERIES, TOKIO."

Mention American Florist.



SEEDS ... FOR THE ... Garden and Farm

Vegetable and Flower Seeds. All the newest and best varieties—quality unsurpassed. Illustrated Catalogue FREE.

WEEBER & DON, Seed Merchants and Growers,
114 Chambers St., New York City.

BERNARD SPAE,

Ghent, Belgium,

offers at moderate prices the following plants, of which he makes a specialty:

Azaleas Indica and Mollis; Araucarias excelsa, glauca and compacta; Palms, Rhododendrons, Laurens, Laurestinus; Spiraea asilboides, floribunda and compacta; Metrosideros, Mimosa, etc., etc.



YES! UP TO DATE SEEDS,
AND NO OTHERS.

	Trade Pkt.	Oz.
CENTAUREA GYMNOCARPA	\$0.15	\$0.40
COBÆA SCANDENS	.15	.35
COSMOS, Mixed	.15	.40
MIGNONETTE MACHET	.10	.50
ASTERS, Select Florist's stock. Victoria mixed	.50	3.00
MUSA ENSETE, 10 seeds, 25 cts.; 100 seeds, \$1.50.		

WM. H. ELLIOTT & SONS, New York.



N. DAMES,
OF THE FIRM
Van der Horst & Dames,
(Formerly G. VAN DER HORST & CO.)
BULB GROWERS,
Heemstede, Lisse, Holland,
is on his round trip in America. To save time, we beg to address all letters up to May 1st, care of Knauth, Nachod & Kuhne, 13 William St., New York. Our motto is "Fine stuff makes cheap prices." Our dealings in America is increasing every year. Write at once for quotations. *Yours truly,* **N. DAMES,**
OF VAN DER HORST & DAMES.

VAN ZANTEN BROTHERS, Hillegom, Holland.

Extra quality of **HIGH GRADE FORCING BULBS AT LOW PRICES.** We now book orders for **Azalea Indica, Palms, etc.** The largest collection of sundry bulbs and plants.
APPLY FOR WHOLESALE CATALOGUE.

**We have 32,000 pounds of Sweet Peas,
Largest collection in the world,
BUT there is only one "CUPID."**

W. Atlee Burpee & Co., Seed Growers, Phila.

NORTHROP, BRASLAN, GOODWIN CO.

Being **GROWERS** we are in a position to supply **Seeds of First-Class Quality** and to make **specialty low prices.** A trial will convince those who have not yet found this out.

NORTHROP, BRASLAN, GOODWIN CO.

20 to 28 Hennepin Ave., MINNEAPOLIS, MINN.

55, 57 & 59 N. Jefferson St., CHICAGO.

**WE ARE HEADQUARTERS ON
BULBS FOR FORCING,
FLOWER SEEDS FOR FLORISTS
ENGLISH MUSHROOM SPAWN.**
Special prices on application.
**JOHN GARDINER & CO., Seedsmen,
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NEW BRANCHING ASTERS.

VICK'S WHITE BRANCHING.....per oz. \$2.00
" **PURPLE** " " 1.50
" **ROSE** " " 1.50
" **SEMPLE'S PINK** " " .75
ZIRNGEBEL'S DOUBLE WHITE....." 1.50
Trade packet of any of the above, 25 cts. or the set of five varieties, one trade pkt. or each, \$1.00.
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Florists' Sweet Peas



New Sweet Pea "America"

Is more distinct and striking than any other variegated Sweet Pea in existence, and is of the large flowering type. Its color is a white ground and through the center of the standard is a wide enamine scarlet blotch veined with fine scarlet lines running toward the edges and showing in the same manner on the wings. The dashing contrast of the heavy scarlet blotch on the white ground makes the blossoms very effective in a mass of cut bloom or when flowering in the garden. It is indispensable for any complete collection of colors in Sweet Peas. Pkt. 15c; 2 for 25c; 5 for 60c; 10 pkts. \$1.00; 100 pkts. \$7.50.

BLUSHING BEAUTY, clear "daybreak" pink, largest size. Oz. 5c; 1-4 lb. 12c; 1b. 35c; 5 lbs. \$1.50.

COUNTLESS OF RADNOR, clear lavender, very large flower. Oz. 5c; 1-4 lb. 15c; 1b. 45c.

EMILY HENDERSON, pure white, large early. Oz. 5c; 1-4 lb. 12c; 1b. 35c; 5 lbs. \$1.50.

HER MAJESTY, clear bright rose, very fine flower. Oz. 7c; 1-4 lb. 15c; 1b. 45c.

FIREFLY, brightest fiery scarlet, large. Oz. 10c; 1-4 lb. 20c; 1b. 60c.

MRS. ECKFORD, best large yellow. Oz. 7c; 1-4 lb. 18c; 1b. 55c.

MRS. SANKEY, large, white. Oz. 5c; 1-4 lb. 15c; 1b. 40c; 5 lbs. \$1.75.

INVINCIBLE CARMINE, deep crimson scarlet. Oz. 6c; 1-4 lb. 12c; 1b. 35c.

TRUE LOTTIE ECKFORD, white, blue edge, large. Oz. 5c; 1-4 lb. 15c; 1b. 40c; 5 lbs. \$1.75.

For other varieties see our "Book for Florists," sent free to florists.

VAUGHAN'S PRIZE MIXTURE SWEET PEAS. 10 lbs. \$7.00; 1b. 80c; 1-4 lb. 25c; oz. 15c.

ECKFORD MIXTURE. 10 lbs. \$5.00; 1b. 60c; 1-4 lb. 20c; oz. 10c.

Florists' Forcing Mixture. 1b. 60c; 1-4 lb. 20c; oz. 10c.

ALL COLORS MIXED. 10 lbs. \$2.50; 1b. 30c; oz. 5c.

If to go by mail, add 8 cts. per pound to above prices.

VAUGHAN'S SEED STORE,

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Bulbous Begonias.

LAING'S STRAIN. In separate colors.

Lilium Longiflorum, Tuberoses, Spiræas,
etc. Now on hand.

Ask for prices.

HULSEBOSCH BROS., Englewood, N. J.
Mention American Florist.

Cincinnati.

The regular monthly meeting of the Cincinnati Florist Society was held April 11, and called to order by President Gillett. The meeting was well attended and the flower show brought out a goodly number of lady visitors during the afternoon. There was a table containing about 100 vases of cutflowers, roses and carnations predominating. The judges consisted of Messrs. Sunderbruch, Walz and Bock; they awarded the following certificates: to John Conger for pot petunias; Wm. Murphy, Scott and Portia carnations; H. L. Sunderbruch, Scott carnation, Meteor and Brunner roses; R. Witterstaetter, Emma Woelher carnation; Magrie & George, Lily of the valley; Hofmeister Floral Co., Bride, Beauty and Mermet roses; Thomas Jackson, daisies, Bridesmaid and Uncle John carnations; Chas. Schweizer, Lilium Harrisii; H. Schwarz, Daybreak carnations. A vase of mixed seedling carnations from R. Witterstaetter was much admired, also a vase of his scarlet seedling which is not named yet. There were 46 entries made. No special business was transacted and the meeting adjourned.

Easter is a thing of the past and the boys are well pleased, having done a good business in their various lines. The store men and wholesale houses report an increase of 25%. The flower market was well stocked with choice plants and by 7 p. m. most all were sold out. Very little salted stuff was sold. The following were the ruling Easter prices: Carnations 50 to 75 cents per dozen; roses, teas \$1 to \$1.50 per dozen; hybrids \$1.50 to \$2 per dozen; tulips, hyacinths, narcissus and valley 50 cents per dozen. Some choice hydrangeas were seen on J. Peterson's stand. Mr. Peterson made a grand display in his 4th street store during Easter week, the same may be said of his neighbors Messrs. Kelly and Hardesty.

H. SCHWARZ.

Omaha.

Easter trade was fully up to expectations, and the weather could not have been more favorable. Wrapping was required only to keep the blooms of the plants from being bruised, but several dealers did not go to that much trouble; we hope we will not see this negligence again. Two weeks preceding Easter was cloudless and spring-like, consequently there was an abundance of stock, and in most places the supply was equal to the demand. Carnations and valley were short. Prices were about the same as last year. Good lilies sold for 12½ and 15 cents, while a great deal of poor stock for 10. An effort was made a few days before Easter to establish a price on lilies. A meeting was called at the Paxton Hotel, but few were in attendance, consequently very little was done. Azaleas and potted hyacinths sold well, better than several years previous. Very little demand for palms and ferns.

J. R. McPherson, of Council Bluffs, spent a few days of last month in Chicago on business. G. R. H.

ST. JOSEPH, MICH.—Mr. J. H. Brumby has opened a floral store here. He has been cutting a fine lot of Jack roses since the middle of February, most of which have gone to the Chicago market.

Della Fox and Annie H. Lonsdale
ALL SOLD.

MYERS & SAMTMAN, Chestnut Hill, Phila.

IVORY! THE GREAT SUCCESS!

NOTHING IS IN MORE UNIVERSAL DEMAND BY FLORISTS THAN A GOOD, PRODUCTIVE WHITE CARNATION.

In **IVORY** you will have it. Try it and you will have a money maker. It produces as many blooms as Wm. Scott, is as perfect in form as any Carnation yet produced, held by a calyx that never bursts and carried on a long, wiry stem. What more do you want?

Fine plants from soil, \$10 per 100; \$75 per 1000. Stock ready now.

Also fine stock of *all the other leading varieties*. SEND FOR PRICE LIST.

GEO. HANCOCK & SON, Grand Haven, Mich.

HERR'S CARNATIONS.

ROOTED CUTTINGS that will give good results, because they are taken from healthy stock, and will be well rooted when sent out.

VARIETIES:

McGOWAN,
STORM KING,
ALASKA,
ANNIE LONSDALE,
IVORY.

DAYBREAK,
SCOTT,
ROSE QUEEN,
PEACHBLOW,
DELLA FOX.

DORNER,
STUART,
PORTIA,
JUBILEE,
LAGO.

ELEN KELLER,
KITTY CLOVER,
ELDORADO,
CARLEDGE,
TIDAL WAVE.

Fourteen large houses full of Carnations. State how many you will want of each variety in asking for prices.

L. B. 496.

ALBERT M. HERR, LANCASTER, PA.

The Bridesmaid Carnation

is the pink carnation you want. It averages more HIGH GRADE blooms than any other pink variety grown. It has a long stiff stem, strong calyx, perfect form of flower and a color that cannot be excelled in its class. It sells quickly at a high price, and stands at the head of the list of pink carnations. It won the honors at the American Carnation Society Show at New York as best pink in classes A, B and C. Its growth is clean and healthy.

Order now to get your stock early.

No Rust, Strong Cuttings.

\$5.00 per 100, \$40.00 per 1000.

If you have not already received our list send for it.

**F. DORNER & SON,
LA FAYETTE, IND.**

The Crack Carnations:



SCOTT, ALBERTINI,
DAYBREAK, McGOWAN.

Selected Cuttings, well rooted in sand and soil, delivery February 15th and later, \$2.00 per 100; \$15.00 per 1000.

Send your order at once, with cash, to get these figures. . . .

**ALEX. McBRIDE,
ALPLAUS, N. Y.**

CARNATIONS.

ROOTED CUTTINGS.

In large quantities, see list of varieties in FLORIST, March 21st. Send for price list.

H. WEBER & SONS, Oakland, Md.

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Orders solicited for **ROOTED CUTTINGS.**

KOHINOOR takes the lead.

Other Novelties of the Standard sorts at standard prices. All healthy and strong.

C. J. PENNOCK,

The Pines. KENNETT SQUARE, Chesler Co., PA.

DO YOU WANT CARNATIONS?

If so, why not **GROW** the BEST?

50,000 ROOTED CUTTINGS, including Daybreak, Wm. Scott, Goldfinch, Lizzie Gilbert, Emily Pierson, Lizzie McGowan, Tidal Wave, S. Spray, Hinz's White, &c. Can do you justice in quality and prices. Write me before you buy. Address **CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.**

50,000 CARNATIONS

ROOTED CUTTINGS

Now Ready

Positively clear of RUST. Send for price list.

William Swayne,

P. O. Box 226. KENNETT SQUARE, PA.

Mention American Florist

CARNATIONS. ROOTED CUTTINGS

WM. SCOTT, LIZZIE MCGOWAN,

\$10.00 per 1000.

DAYBREAK, TIDAL WAVE,

\$12.00 per 1000.

All in fine condition. No order for less than 500 plants desired. Cash with order.

C. SOLTAU & CO., 199 Grant Ave., Jersey City, N. Y.

CARNATIONS.

Rooted Cuttings in immense quantity, strong and well-rooted and particularly free from rust.

Daybreak, Wm. Scott, Thos. Cartledge, Tidal Wave \$2.00 per 100; \$15.00 per 1000

Lizzie McGowan, Silver Spray, Portia, \$1.50 per 100; \$12.00 per 1000.

Lady Campbell Violets in any quantity, \$1.00 per 100; \$8.00 per 1000.

JOS. RENARO, Unionville, Chester Co., Pa.

Pansies and Verbenas

WE HAVE A LARGE STOCK.

Strong and stocky, coming into bud. A snorer strain at the following low price:

	Per 100	Per 1000
PANSIES	\$0.00	\$4.50
MAMMOTH VERBENAS	.70	5.50
CALIFORNIA VIOLETS, rooted	1.00	8.00

**S. WHITTON & SONS, Wholesale Florists,
City and Green Sts., UTICA, N. Y.**

LILY BULBS FROM JAPAN.

Imported Direct from the Japanese Bulb Farms and offered at Import Prices.

These are from same reliable growers heretofore, and can be thoroughly depended on. They are repacked on arrival and every bulb guaranteed sound. I offer these with every confidence and know they will give good satisfaction. Note especially my very low prices this year for repacked and guaranteed bulbs.

		Per 100
Lilium auratum,	7 to 9 inches	\$4 00
" "	9 to 11 "	6 00
" speciosum rubrum,	7 to 9 "	6 00
" " roseum,	7 to 9 "	6 25
" " album,	7 to 9 "	8 50

CANNAS, GLADIOLI, DAHLIAS, PÆONIES, BEGONIAS, GLOXINIAS, IRISES, MADEIRA VINES, AND OTHER SPRING BULBS.

Fine assortment at low rates.

Send for Price List.

G. C. WATSON,

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Garnation Orders BOOKED NOW.

Good, clean, well-rooted stock. NO RUST.

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BRIDESMAID.....	\$5.00	\$50.00
METEOR.....	5.00	40.00
STORM KING.....	5.00	40.00
UNCLE JOHN.....	3.00	25.00
STUART.....	3.00	25.00
E. A. WOOD.....	3.00	25.00
GOLDFINCH.....	4.00	35.00
WM. SCOTT.....	2.50	20.00
DIAZ ALBERTINI.....	3.00	25.00
DAYBREAK.....	3.00	25.00

CHRYSANTHEMUMS.

	Each	Doz.	100
Mrs. W. C. Egan, new (ready March 1)	50	\$5.00	\$35.00
Tippecanoe, new (ready March 1)	50	5.00	35.00
Amaranth, new (ready March 1)	50	5.00	35.00
Mr. E. M. Biegelow	1.00	8.00	
Mrs. S. T. Murdoch	1.00	8.00	
Oakland	1.00	8.00	
Major Bonaffon and other choice older standard sorts	.75	5.00	

Send for descriptive trade list.

F. DORNER & SON,

LA FAYETTE, IND.

When writing mention American Florist.

300 Acres in Nursery.

1 Acre of Glass.

Specialties for Florists.

	Per 100
Cardenias, 8 inches.....	8.00
Crevillea, 12, 18, 24 and 36 in., \$8.00, \$8.00, \$10.00 & 15.00	
Eugenia Jambos, fruit bearing, 18-24 inches, 12.00	
Camphor, 12-18 inches.....	8.00
Guava Red Cattle, bearing size, 18-24 inches, 12.00	
Magnolia Fuscata, 8, 12, 18-24 inches.....	\$10.00, \$12.00, \$15.00, 25.00
Olea Fragrans, 8, 15, 24 inches.....	88, \$12 & 20.00
Oranges & Lemons, grafted on dwarf stock, blooming size, stocky, 10-12 & 15-18 in., \$25 & 40.00	
Otaheite Orange, bushy, 10 & 12-15 in., \$8 & 15.00	
Stock of above all pot-grown, ready now to ship, and in best possible condition.	
Fruit and Ornamental Trees, Rare Conifers, etc. Send for Trade List and Descriptive Catalogue.	

P. J. BERCKMANS,

Fruitland Nurseries,

AUGUSTA, GA.

50,000 Rooted Cuttings clean, healthy Marie Louise' \$3.00 per 1000.
10,000 transplanted Scott, Daybreak, McGowan..... \$1.50
Sand cuttings, well-rooted..... 1.00
Cobaea scandens, 2 1/2-1 ch pots, 20 inches long..... 3.50
Vincas, trailing, out of sand, well-rooted..... 1.00
Rooted Rose Cuttings, Mornet, Bride, La France, Meteor..... 1.25
By mail add 10c per 100. Cash with order.

J. J. LAMPERT, Xenia, O.

Carnations!

To make room immediately I offer for cash with orders, the following varieties in extra strong transplanted stock from flats, in fine condition for immediate planing in open ground:

ALASKA and HELEN KELLER	\$3.00 per 100
WM. SCOTT and MME. ALBERTINI.....	2.00 "
LIZZIE MCGOWAN	1.50 "

JOHN N. MAY, Summit, New Jersey.

NEW CARNATION, W. D. SLOANE.

This new sort will prove a leader to all Florists. We know of no better variety of its color, and none can equal it in fragrance. The plant is a strong and vigorous grower, needing but little support, with dark foliage about as heavy as Tidal Wave. Flowers are large, good substance and lasting qualities, borne on stiff stems 15 to 20 inches in length; color a beautiful cerise. Very profuse bloomer.

PRICE, \$10.00 PER 100; \$75.00 PER 1000.

Pitcher & Manda, Short Hills, N. J.

Sam'l S. Pennock, 1612 Barker St., Philadelphia, who handles the entire crop of flowers of this new variety, says under date of March 26th, 1896: "Your W. D. Sloane, the way you grow them, are certainly fine, with the long stiff stems and good sized flowers. A ready sale for them is found at an advanced price over the average varieties."

THE COTTAGE GARDENS,

C. W. WARD, Manager.

QUEENS, L. I., N. Y.

WHOLESALE SPECIALTIES:

CARNATIONS,
CANNAS,

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GERANIUMS.

EMMA WOCHER, The New Shell-Pink Carnation

This Carnation is of a "lively bright shade," deeper than Daybreak, blooms measure from 2 to 2 1/2 inches in diameter, fragrant, with a stem that carries the bloom erect at all times, calyx perfect, flower of good form; will grow erect with no other support than a V shape wire netting and is pronounced by all who have seen it to be an acquisition and many orders have already been booked. In our Cincinnati market it sells more readily than either Scott or Daybreak; it is not a cropper but a continuous bloomer.

Price for strong well-rooted cuttings, \$10 per 100; \$75 per 1000; 500 at 1000 rates. Cash must accompany all orders or satisfactory reference. Address

R. WITTERSTAETTER,

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CLEMATIS

Jackmanni, and all large flowering varieties, \$17 per 100

Rhododendrons, Snowball, H. P. Roses, Azaleas, Tree Roses, Pæonia Chinensis, Tree Pæonia, Double Flowering Crategus vars., Lilacs, Hydrangea, Magnolia with buds, Etc., Etc.

ASK FOR PRICES.

L. C. BOBBINK, RUTHERFORD, N. J.

Branch of the Horticultural Co., Boskoop, Holland.

	Packet
CINERARIA maxima grandiflora, finest large flowering.....	\$0.50
PRIMULA Auricula, finest mixed, from stage flowers.....	.50
Acanthe (garden primrose), mixed vars., Polyanthus, finest mixed, named sorts.....	.25
" gold edged varieties, extra stage flowers.....	.25
25 GLADIOLUS Bulbs, all distinct varieties.....	.50

CHARLES LONG,

277 Jefferson Ave., ROCHESTER, N. Y.

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Carnations!

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Seed.

NOW ON HAND
FRESH CROP.

Camarops excelsa.....	per 100	per 1000
canariensis.....	50c lb.	\$ 3.70
elegans.....	10c lb.	
robusta.....	50c lb.	
Erythea Armata.....	1.50	12.50
dulcis.....	1.00	12.50
Latania borbonica.....	.35	2.50
Phoenix leonensis.....	1.00	8.50
reclutata.....	1.00	8.50
rupicola.....	1.00	8.50
siamensis.....	1.00	8.50
Sabal Blackmaniana.....	1.00	8.50
serrulata.....	.50	4.00
Washingtonia filifera.....	25	2.00
robusta.....	.35	3.00

A full list on application.

Camarops excelsa.....	per 100	per 1000
canariensis.....	50c lb.	\$ 3.70
elegans.....	10c lb.	
robusta.....	50c lb.	
Erythea Armata.....	1.50	12.50
dulcis.....	1.00	12.50
Latania borbonica.....	.35	2.50
Phoenix leonensis.....	1.00	8.50
reclutata.....	1.00	8.50
rupicola.....	1.00	8.50
siamensis.....	1.00	8.50
Sabal Blackmaniana.....	1.00	8.50
serrulata.....	.50	4.00
Washingtonia filifera.....	25	2.00
robusta.....	.35	3.00

A full list on application.

J. L. SCHILLER, Rutherford, N. J.

JUST IN TIME

To Render the Most Acceptable Service for
DECORATION DAY.

I am prepared to book your orders for prompt shipment on and after May 10, for
GRANDIFLORA CAPE JASMINE BUDS.

PRICES AS FOLLOWS:

1st quality, long stems.....	\$1.00 per 100
2nd ".....	.75 per 100
3rd ".....	.60 per 100

In baskets by express, purchaser to pay charges. Terms, invariably cash. Special terms in large quantities. No shipments on commission.

Address **J. M. WEEMS,**
P. O. Box 237, ALVIN, TEXAS.

WANTED.

1200 Garfield Carnation Cuttings.

Address **WM. PAPE,**
3307 Pennsylvania Ave., St. Louis, Mo.

WANTED.

ECHEVERIAS for Carpet Bedding
Send price and sample to
Probst Bros. Floral Co., 1017 Brdwy, Kansas City, Mo.

Worcester, Mass.

Easter Saturday dawned bright and clear, but before long the sky was overcast, the thermometer dropped, and a nasty wind combined to make it as disagreeable as possible to ship our stuff to the city, and for the storemen to deliver it. In spite of the inclemency of the weather all did a good business, in fact all we could handle. More stock was grown this Easter than ever before, and though there was no surplus of any account still in several lines we had more than enough. Carnations, as a matter of course, were short, and though the quantity brought in exceeded our anticipations all the good stuff was sold out before Saturday noon. Lilies were also on the short side and we probably could have handled a few hundred more plants if we had them, but the cold and the wind made it such a hard job to deliver a lily plant and get it there in decent shape that the loss wasn't felt as much as it would have been in fine weather. Bulbous stuff we had in enormous supply, and though it sold well quite a quantity was left over with the exception of Von Sions. Violets were very scarce and decidedly poor in quality, with the exceptions of a very few single ones. We had the biggest supply of roses ever seen on an Easter day in this town, and for once we had enough. Spiræa, deutzia, mignonette, antirrhinum, smilax, etc., were plentiful.

Potted plants sold well; azaleas went early in the day and hyacinths, narcissus, tulips, spiræa, lilacs, cyclamens, cyrtisus, daisies, etc., were in good demand. All the churches decorated more or less extensively, using a great many palms, etc. Prices didn't advance at all, not withstanding the shortage on some lines; most of the storeman don't believe in increasing prices on the slightest provocation, but a few retailers who had to depend on the commission men had to advance to get their money back. Outside of Easter trade has been quiet and steady and from now every thing will probably be plentiful except violets.

C. B. Knickman, representing J. C. Vaughan, paid us an Easter visit.

A. H. L.

Milwaukee.

The preliminary premium list for the next chrysanthemum show under the auspices of the Milwaukee Florist Club, to be held in November, is now ready and can be had by making application to the secretary, Wm. Freytag, 794 Forest Home avenue, Milwaukee, Wis. INCOG.

STAPLETON, S. I. N. Y.—Fred G. Hawkins has sold out his old place, and secured a more extensive establishment. He will also run a store in connection with his greenhouses, at 126 Vanderbilt avenue.

Association Flora,

BOSKOOP, HOLLAND.

CLEMATIS, Large-flowering sorts, \$15.00 per 100.

Rhododendrons in sorts, *Pæonia*, Bleeding Heart, *Spiræa japonica*, *Azalea*, *Magnolia*, *Lilacs* and *Shrubs*.

H. P. ROSES in sorts.

P. DUWERKERK, 1123 Summit Ave.,

Catalogue on Application. JERSEY CITY, N. J.

Always mention the American Florist when writing to advertisers.

ROSES, TREES, BULBS, PLANTS.

200,000 Strong, hardy, nursery grown Roses.
500,000 Pot Roses, Teas, China, Bourbon, etc.
Greenhouse plants of all descriptions.

100,000 Elegant Poplars, 5 to 25 feet, Carolina Aurea, Lombardy.

ONE THOUSAND CAR LOTS of OTHER ORNAMENTAL TREES, SHRUBS, Etc.

250,000 Peach, choicest sorts.
150,000 Pear, standard and dwarf.
100,000 Plum, best European and Japan.
75,000 Cherry, Morellos, Hearts, etc.
150,000 Apple, Quince, Apricot.

100,000 Nut bearing trees.
2,000,000 Small Fruits, Grapes, Currants, Gooseberries, Raspberries, Blackberries, Dewberries, Strawberries.

We occupy one and a half miles on the bank of Lake Erie. No healthier, hardier trees are grown on the continent. Catalogue and Trade List free. Lower quotations given on large lots. Write us We can do you good

42nd YEAR. 1000 ACRES. 29 GREENHOUSES.

THE STORRS & HARRISON CO., PAINESVILLE, OHIO.



BLOOMERS FOR FLORISTS.

— THINK OF IT —

CUSHMAN'S GLADIOLUS BULBS,
a sure fit at popular prices.

CUSHMAN GLADIOLUS CO., Euclid, O.

Hardy Herbaceous Plants

\$50 per Thousand.

offer will not appear again, and anyone wishing to avail themselves of this opportunity to secure a stock of these popular plants should send in their orders at once, so that plants can be reserved for spring shipment. WE GUARANTEE FIRST CLASS STOCK IN EVERY CASE.

PITCHER & MANDA, SHORT HILLS, N. J.

AZALEAS, The finest commercial varieties.

PALMS, Large, healthy stock, well grown.

ARAUCARIAS, From Cuttings only.

BAY TREES, Perfect shape, in all sizes.

SANDER, BRUGES, BELGIUM.

Agent: A. DIMMOCK,
106 & 108 Liberty Street, NEW YORK.
SEND FOR SPECIAL OFFER.

SPECIALTIES

IN BEST VARIETIES.

ROSES, from 3-inch pots.

CARNATIONS, for fall delivery.

CHRYSANTHEMUMS.

SMILAX.

VIOLETS.

Prices low. Send for list.

WOOD BROTHERS, FISHKILL, N. Y.

THE FAMOUS NEWPORT CANNA, "Mrs. Fairman Rogers."

Has all good points. Two Silver Medals and three First-Class Certificates awarded.

Plants, \$6.00 per dozen. Stock limited.

J. S. COWLES, Newport, R. I.

	Per 100	Per 1000
ALYSSUM.....	\$.50	\$ 7.00
HELIOTROPE.....	1.00	9.00
PARIS DAISS.....	1.00	9.00
FUCHSIA.....	1.00	9.00
CHRYSANTHEMUMS.....	1.00	9.00
GERANIUMS.....	1.50	15.00

In 2-inch pots add 75c. per 100.

CARNATIONS—Rooted Cuttings.
Lizzie McGowan, Silver Spray, Louise Singler,
Daybreak, Thidal Wave, Scott. \$1.50 per 100;
\$10.00 per 1000. C. LENGENFELDER,
Berteau and Western Ave., CHICAGO.

Mention American Florist.

THE WM. H. MOON CO.

MORRISVILLE, Bucks Co., PA.

Offer the following to the Trade:

ORNAMENTAL GRASSES in variety.
5,000 ROSA WICHURAIANA.
HONEYSUCKLES—20,000, Evergreen, Halliana and Golden
CLEMATIS PANICULATA—10,000, one and two years old.
CALIFORNIA PRIVET—200,000, one and two years old.
FLOWERING SHRUBS—250,000, all sizes and varieties.
DECIDUOUS TREES—500,000, for streets and lawns.
EVERGREENS—500,000, large, medium and small.
Correspondence solicited in reference to anything needed in the way of nursery stock.

Mention American Florist

50,000 Violets and Ampelopsis

California Violet, 2½-inch..... \$2.50 per 100
" " Rooted Runners..... 20.00 per 1000
Lady Campbell and M. Louise, \$1 per 100; \$8 per 1000
Ampelopsis Veitchii, fine dormant pot plants, 1 year,
\$3.00 per 100; 2 year \$6.00 per 100.

50,000 Carnations, standard sorts, from flats.

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APRIL OFFER.

Alternantheras, red and yellow..... \$2.00
Ageratum, blue, 2-in. pots..... 2.00
Geraniums, 3-in. pots..... 4.00
Smilax, 2-in. pots..... 1.50
Pansies, cold frames..... small \$1. larger 1.50

Cash with order.

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The Oaks Greenhouse Co., Jackson, Mich.

Per 100
Begonias in variety, 2½-inch pot plants..... \$2.50
Chrysanthemums, 2½-inch pot plants..... 2.50
" " Cuttings, standard vars..... 1.00
Marguerite Daisy, 1½-inch cuttings..... 1.00
" " 2½-inch plants..... 2.50
Glechoma Hederacea, R. Cuttings..... .50
Verbena, best strain..... .75
Vine Variegata, R. Cuttings..... 1.00
Cuphea, Pilea, German Ivy, etc..... 1.00
If to be sent by mail add 10c per 100. Cash with order

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	Per 100
Amaryllis (Empress of India), 4 and 5-inch.....	\$15 to \$60 00
Artemisia, silvery foliage.....	3 00
Achyranthes, four kinds.....	2 00
Ageratum, White and Blue.....	2 00
Cuphea, 3 kinds, the best.....	2 00
Canna, Fancy French.....	5 00
" Common, mixed.....	2 00
Coleus, all kinds.....	\$25.00 per 1000 2 50
Calla.....	\$4.00, \$6.00, 20 00
Cactus, in variety.....	5 00
Century Plants.....	\$10 to 15 00
Cyperus alternifolius.....	4 00
Croton.....	\$3 to 10 00
Cyclamen, 3 and 4-inch pots.....	8 00
Dracena indivisa.....	\$10 to 20 00
Cinerarias.....	\$5.00 and 8 00
Epiphyllum, Lobster Cactus.....	8 00
Eulalia zebrina, Zebra Grass.....	5 00
Euphorbia splendens.....	5 00
Ficus australis, Rubber Tree.....	10 00
Fuchsias, general collection.....	\$2.50 to 3 00
Gladiolus.....	1 50
Geraniums, all kinds.....	\$3 to 4 00
Hibiscus.....	3-in. \$3; 4-in. 5 00
Heliotrope, 2-inch pot plants.....	3 00

	Per 100
Hydrangea, 3 and 4-inch.....	\$5 to \$8 00
Helianthus.....	4 00
Ivy, all kinds.....	\$3 to 10 00
Jasminum, 3 kinds.....	5 00
Lantana, fine, best varieties.....	4 00
Lemon Verbena.....	4 00
Lobelia.....	3 00
Moon-Flower.....	\$25 per 1000 3 00
Manettia, 2 and 3-inch pots.....	3 00
Alternanthera.....	2 50
Pandanus utilis, 2-inch pots.....	8 00
Pelargoniums.....	8 00
Petunia, double and single.....	4 00
Poinsettia, 5-inch pots, 20c each.....	15 00
Pansy, every variety.....	2 00
Pæonia, assorted.....	\$4 to 12 00
Primula obconica, 3-inch pots.....	\$3 to 6 00

	Per 100
Polyanthus.....	\$3 00
ROSES, Monthly and Tea.....	3 00
" Hybrid Perpetual.....	2 50
Vincas.....	\$4 to 8 00
Verbenas, every variety.....	2 00
Chrysanthemums, 25 varieties.....	\$2 to 3 00
Carnations.....	\$3 to 6 00
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Ferns. We grow Ferns for the market, and have several houses devoted to their growth.....	\$6 to 10 00
Palms and Decorative Plants. Our Palms are in fine condition, and we make better inducements than ever before.	
Bedding Stock of all kinds.	
Send for Our Complete Catalogue.	

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BLUE PERFECTION.

As a cut flower, read what two of the oldest and best known houses of Philadelphia say:

MR. ALBERT KNAPPER:—This season we have worked up quite a little trade on Myosotis, and consider it a good cut flower for the retail florist, which I think will grow more in favor.

SAMUEL S. PENNOCK.

MR. ALBERT KNAPPER:—We take great pleasure in recommending a good article, and can say that your Myosotis is a fine, large, strong flower of a grand color, and the best we have seen for a great while.

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A GOOD SELLER.

NO DISEASE.

A GOOD KEEPER.

EASILY HANDLED.

ORDER NOW.

Has averaged at the wholesale market this winter from \$1.50 to \$2.00 per 100 flowers. Treatment similar to Violet Marie Louise or Carnations, from 40 to 50 degrees.

PLANTS, 2-in. pots, ready now, per 100, \$5.00.

ROOTED CUTTINGS, per 100, \$3; per 1000, \$25.

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HERR'S COLD FRAME PANSIES, the strain that has made them famous. Per 100, \$1.75 and \$2; per 1000, \$12.50 and \$15.

PLANTS—Alternanthera, red and yellow, 80c per 100; \$6.00 per 1000. Sample's and other fine florists' ASTERS, mixed, at 65c per 100; \$5.00 per 1000.

COLEUS.

ROOTED CUTTINGS of red and yellow; also fine assortment of fancy, at 75c per 100; \$6.00 per 1000.

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L. B. & F.

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Fine Anthemis coronaria superba fl. pl. \$2 50 per 100.

3½-inch pot ROSES, our selection . . . \$5.00 per 100
MOONVINE . . . \$3.00 per 100
CRIMSON RAMBLER . . . \$5.00 per 100, \$40.00 per 1000

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7 to 9 feet, first-class,
\$25 per 100.

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Order direct from the originators. Pot plants now ready. Price 50c each; \$5.00 per doz.; \$40.00 per 1000.

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Fine stock; no mildew; \$2.50 per 100; \$20.00 per 1000.

ABUTILONS, leading varieties, our selection . . . \$3.00 per 100
Begonias, flowering varieties, our selection . . . 3.00 "
Carnations, Lizzie McGowan and others . . . 3.00 "
CALLAS LITTLE GEM . . . 4.00 "

SEND FOR TRADE LIST.

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100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, \$1.00 per 100; \$8.00 per 1000.

NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.

WE ARE THE LARGEST GROWERS OF VERBENAS IN THE COUNTRY. OUR PLANTS CANNOT BE SURPASSED.

New Carnation "Crimson Sport."

Large flower, finest velvety crimson, best keeper. Plants hardy, productive, free from disease. A good market variety. Send for list of rooted Carnation cuttings.

ROOTED CUTTINGS, \$1.50 per dozen; \$10.00 per 100; \$60.00 per 1000.

J. L. DILLON, Bloomsburg, Pa.

COLEUS.

HEADQUARTERS FOR ROOTED CUTTINGS

	Per 100	Per 1000
Golden Queen, the only yellow, and Crimson Verschaffeltii.....	\$6.00	\$75
Coleus in variety.....	5.00	100
Cuphea platycentra (Cigar Plant).....	6.00	75
Ageratum, blue and white.....	6.00	75
Feverfew Little Gem.....	10.00	150
Fuchsias, to name.....	12.00	150
Heliotrope, to name.....	8.00	100
Salvia splendens.....	10.00	125
Rose Geranium.....	10.00	150
Alternanthera p. major and aurea nana.....	6.00	75
Heliotrope, 2½-inch pots.....		2 00
MT. of Snow Geranium, 2½-inch pots.....		2 50
Vineca variegata 2½-inch pots.....	20.00	250

Selection of sorts to remain with us.

Cash with the order.

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HEDYCHUM CORONARIUM (Myrosma canniolia), the magnificent sweet-scented "Butterfly," or "Ginger" lily; easily grown, and very floriferous. Strong started plants, \$1 per dozen; \$7 per 100. Tubers, 75c per dozen; \$3.50 per 100.

NEPHROLEPIS EXALTATA (Sword Fern), fine plants, averaging 10 to 15 in. high, some much larger, \$2 per 100; \$14 per 1000. Send for large catalogue. REASONER BROS., Oneco, Fla.

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We devote our whole attention to

DAHLIAS

WM. AGNEW.—New Cactus Dahlia of 1896; deep, glowing crimson-scarlet, clear and bright; 6 to 7 inches in diameter; deep and full to center, with beautifully twisted petals. 40c each, \$3.50 per 12. Send for descriptive Novelty list.

W. P. PEACOCK, Atco, N. J.



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Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

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E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

WHEN writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

Louisville, Ky.

No complaints are to be heard among the boys, as regards their Easter trade, which has proved to be away ahead of last year's, surpassing the most sanguine expectations of many. The demand for cut flowers of all kinds has been unprecedented in the history of the flower trade in this city. Everything in the shape of a flower sold like the proverbial hot cake, the only drawback being the shortage of flowers, which was a great disappointment to many. Plants too sold as readily as they were handed over the counter. Taken all in all the Easter of 1896 will long be remembered as one that yielded the most satisfactory returns.

Haupt's "Floral Bazaar," on West Jefferson street, presented a most attractive appearance on Saturday. The mammoth store was handsomely decorated for the occasion, numerous palms, plants and cut flowers having been used in profusion and to the best advantage, while an orchestra stationed in the back part of the store discoursed some classic and popular music all day and late into the night. It was a splendid "drawing card," many taking advantage of the free entertainment, spectacular as well as musical, with the result that the store, spacious though it is, had but "standing room." I need hardly add that Mr. Haupt was all smiles over the results of his Easter trade.

Mess. Lewis & Gilbert have removed to 640 Fourth avenue and report an all around satisfactory trade.

Miss Maggie Gorman contemplates removing to Jefferson street, between third and Fourth avenues. HOMO.

Columbus, O.

Mr. John Romans has sold his retail store to the Highland Park Floral Co., intending to confine himself to the wholesale trade exclusively.

Mr. Carl Brown has severed his connections with Livingston's Sons and has opened a flower store. His location on High street is one of the best in the city.

The Franklin Park Floral Co. are about to erect four additional houses, each 108x18. Three of these are intended for roses and one for carnations. The houses will run east and west with the short-span-to-the-south. The glass to be used is 16x24 of double thickness. Gasser's zinc joints and the clipper bar will be used. The houses will be built in the best possible way and with this new addition the company will have a total of 32,000 feet of glass. Mr. Knapp's carnations look exceptionally fine, especially his Lizzie McGowan, which could not possibly be surpassed anywhere. HOMO.

Springfield, Ill.

The was a marked increase in the Easter trade with a large demand for plants which sold readily at fair prices. The supply of roses was about equal to the demand, but carnations were rather scarce.

Mrs. H. L. Phelps has left for Newburg, N. Y., intending to visit also New York city and other eastern points.

A new flower store in town is that recently equipped by Mr. H. L. Phelps at Fifth and Monroe streets. It is a splendid location and Mr. Phelps is well satisfied with the result of his venture.

Messrs. Brown & Canfield are cutting some fine Brides, Meteors, Bridesmaids and Perles. Their American Beauty are just now not quite so fine as they usually have them. HOMO.

NEW LATE PINK FRANCIS B. HAYES
CHRYSANTHEMUM

JAMES COMLEY, Originator, says:
"I have seen, grown, and watched the FRANCIS B. HAYES Chrysanthemum for two years. I think it one of the best ever raised in this country, and is a chrysanthemum that every grower ought to have."

Awarded Certificates of Merit by N. C. S., November 17, 1894, Massachusetts Horticultural Society, November 17, 1894, and N. Y. F. C., November 25, 1895.

\$4.00 per dozen; \$25.00 per 100. Ready May 1, 1896.

F. MACRAE, 1138 Smith Street, PROVIDENCE, R. I.

WM. SIMPSON...
The Earliest large CHRYSANTHEMUM. Price to the
Trade, 50c. each; \$5.00 per Dozen; \$35.00 per 100.
JOSEPH HEACOCK, Wyncote, Pa.
When writing mention the American Florist.

PINK IVORY,

(MISS AGNES L. DALSKOV.)

The invincible New Chrysanthemum, Strong, healthy plants from
2-inch pots, \$2 00 per dozen; \$10 00 per hundred.

SPECIAL PRICES ON LARGER QUANTITIES.

M. HANSEN, New Durham, N. J.

A Sweet Pea only five inches high!

Burpee's "CUPID,"—

A mass of snow white for months.

Chrysanthemum Novelties

Following varieties our seedlings, except Governor Budd. They have been awarded Certificate of Merit from California State Floral Society.

PRIDE OF JAPAN—Perfectly round; deep pink.

GOLDEN CORONET—Gorgeous, bright, intense yellow; incurved.

MRS. HUNTER—Improvement on Lady Playfair.

MRS. J. SEULBERGER—Grand white, style of Ivory; size as much as The Queen, with great depth; slightly hairy.

MRS. MARGUERITE CARBONE—Best of hairy varieties, incurved, snow white.

VERNAL BEAUTY—A grand size, incurved, salmon yellow and buff.

THE KING—Incurved, red and bronzy gold, great size and depth.

GOVERNOR BUDD—Yellow, sport from The Queen. Price, 50c each; \$5 per dozen; \$35 per 100.

CASH WITH ORDER. Send Catalogue free on application. Address

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"ROSE LEAF" Extract of Tobacco INSECTICIDE!

PRICE: 1 gallon can, \$1.50; 5 gallon can, \$5.00.
Applied either by vaporizing or by syringing. Try it.
**LOUISVILLE SPIRIT CURED TOBACCO CO.,
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OUR NEW Chrysanthemums FOR 1896

Have been fully indorsed by the
Chrysanthemum Society
of America.

Descriptions and prices free on application.

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EXTRA OFFER:—I will send 100 Chrysanthemum plants of the new varieties of 1896, in twenty varieties, to one address for \$2.50 by express; \$3.00 by mail; including Edith Smith, Minerva, Mrs. H. Robinson, Dean Hole, Jeannie Falconer, Marie Louise, Miss Pullman, Philadelphia, Camille d'Arville, Mme. Chas. Moine, Mrs. W. A. Bryant, Miss G. Compton, Olympia, W. B. Dinmore, Gold Dust, Miss L. D. Black, The Egyptian, Beauty of Exmouth, Royal Windsor, Bull Globe, Golden Palace, G. S. Yoshike and Rose Yoshike.

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LEMON OIL INSECTICIDE,

Used now by the leading Florists.

75c. per quart; \$1.25 per 1/2 gallon; \$2.00 per gallon; \$9.00 for 5 gallons.

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J. A. Shummers, Toronto, Ont., Agent for Canada.**JOHN C. MONINGER CO.**

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**Clear Cypress
GREENHOUSE
MATERIAL,**

412 to 422 Hawthorne Avenue,

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CHICAGO, ILL.**H. BAYERSDORFER & CO.,**

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FLORISTS' SUPPLIES ONLY,

58 N. 4th Street,

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Our new Catalogue is now out, free upon application.

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Importers and Manufacturers of

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25 N. FOURTH STREET,

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Special price for your wants on application.

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FOR FLORISTS.

Largest and finest stock in the United States. Write for prices to

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FLORISTS' SPECIAL COLORS:

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2 AND 4 DOMINICK STREET,

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TUBEROSE BULBS

Southern grown, bright and handsome; in perfect condition and pure and true to name. The average sizes are accurately shown above.

Excelsior Pearl, \$1.00 per 100; \$8.00 per 1000.

Variegated-leaved, \$1.25 per 100; \$9.00 per 1000.

Caladium esculentum, 6 to 8 in. cir., \$3.50 per 100; 8 to 10 in. cir., \$5.00 per 100; 10 to 12 in. cir., \$7.00 per 100.

Oxalis Deppei, 20c. per 100; \$1.20 per 1000.

Oxalis Lasandria, 25c. per 100; \$1.40 per 1000.

Gladiolus, mixed colors, 1st size, 75c. per 100; \$5.00 per 1000.

Gladiolus, mixed colors, 2d size, 50c. per 100; \$3.50 per 1000.

THE LOVETT CO., LITTLE SILVER, N. J.

**HOT-AIR
PUMPING ENGINE.**

Will pump water from any source, and force it to any height and distance. Simple, safe and free from care. Will burn any kind of fuel. Are supplanting all other means of supplying water on farms, country and city residences, dairy and stock farms, etc. Send for catalogue.

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COLOR PHOTOGRAPHY,
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All with special facilities for the Horticultural trades.

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BRILLIANT GREEN AND BRONZE

GALAX LEAVES,

For Decorating and all Florists' Designs.

CHAS. H. RICKSECKER, Linville, Mitchell Co., N. C.

GLASS

which is absolutely perfect for modern greenhouse construction.

ROCK BOTTOM PRICES.

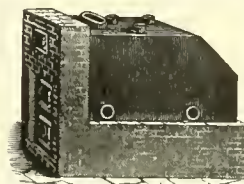
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Satisfaction Guaranteed.

REED GLASS CO.,

102 South 5th Avenue.

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**GREEN-HOUSE
HEATING.****MYERS & CO.**1518 & 1520 S. 9th St.
PHILADELPHIA.Send for catalogue
and price list.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

Indianapolis.

In some instances there was a very substantial increase over last year in the Easter trade, and it will probably average 20%. Retail prices were about 25% lower except on some special items. Supply was equal to demand and in bulbous stuff there was an oversupply, except lilies. Quality was better than last year. At the public market there was a big increase in the sale of plants and fairsales at the stores. Next to lilies, carnations, Beauties and fine roses led in demand. The weather being fine market sales were good, but low prices prevailed on many plants. There was a scarcity of good lilies; the bulbs seem to have been inferior and they forced irregularly.

The regular monthly meeting of the Florists' Club was held April 1 with a fair attendance. The question of holding a spring show under the auspices of the club was discussed, the admission to be free or merely nominal.

The chrysanthemum show committee reported progress. The secretary has issued the advance premium list.

Mr. John Hartje, who has had a siege with typhoid fever, is about again and attending to his regular duties.

Will Bertermann is still suffering from his fall but is well enough to attend to some of his lighter duties.

Mrs. Fred Dornier of Lafayette, Ind., is in the city on a visit. She reports their Easter trade as very good; did not have near enough of their fine carnations.

Holland agents have been in town as usual in numbers. They generally fill up the town to excess; a few less would be agreeable to a majority of the florists.

The seed stores are doing a very good trade, although the cold weather interfered to some extent. W. B.

Grand Rapids, Mich.

The Florists' Club held the regular meeting in the parlors of the Eagle, with an average attendance. The subject for discussion was the Easter flower sales, which were reported fairly satisfactory, Easter lilies retaining their oldtime popularity. Plant sales were larger than formerly.

As to prices on spring bedding plants it was stated that at no place were they sold so cheap as here. It lies largely with the florist to develop a taste for flowers and plants among his retail customers. Opinions pro and con of various wholesale seedsmen and dealers were freely given; results vary so in dealing with different firms that this topic will bear impartial discussion in any Florists' Club.

The printed premium list for the second annual chrysanthemum show is ready for distribution by N. B. Stover, secretary. The show will be given November 16 to 21, by the Florists' Club and ladies of the Childrens' Home Society. Plants intended for exhibition to be in possession of the exhibitor after July 1.

J. K. Johnson, proprietor of the hotel, invited the club members, their wives and sweethearts, to a spread to be given after the next meeting, April 21. The invitation was accepted (of course) and each member is expected to give a short talk on their favorite spring garden flower; as each has been given a topic, and with a spread in sight, the next meeting can but be a grand success. EVELYN A.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns

Standard Flower Pots.

Send for our new price list, with extra discounts. All of our Pots from 7-inch and upwards have our Patent Excelsior Bottom, which is a great advantage as it insures perfect drainage.

A FULL LINE OF BULB PANS.

The Whilldin Pottery Company,

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STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere. Our facilities are unequaled.

A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.

We desire to announce the dissolution of the firm of Siple Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

SYRACUSE POTTERY CO. OFFICE: 403 North Salina Street, SYRACUSE, N. Y.



Standard Flower Pots.

OUR POTS ARE OF THE BEST QUALITY.

We ship all goods from Cincinnati, guaranteeing lowest freight rates and prompt delivery.

Write us before placing your orders elsewhere.

CAMBRIDGE TILE MFG. CO., Covington, Ky.

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STANDARD POTS.

Fern or Bulb Pans.

Ware bright red, and First-Class. Send for cut prices.

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Horticultural Architects and Hot Water Engineers

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Get our Figures before buying Glass.

Estimates freely given.

Jones, McDuffee & Stratton,

Plant Pots and Pedestals

of all grades, sizes and values, direct from the best Potteries of England, France, Germany, China Japan and the U. S.

WHOLESALE AND RETAIL.

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FLOWER POTS.

We Manufacture all kinds of Flower Pots, etc.
Making a Specialty of

Florist Standard Pots

Send for price list and samples (which will be sent free), and we know you will give us your order.

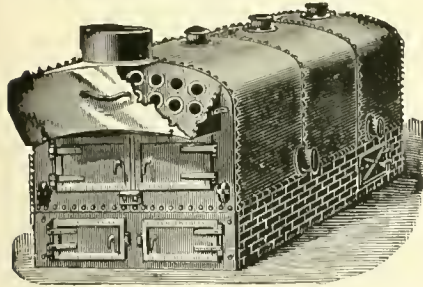
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Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for Information.

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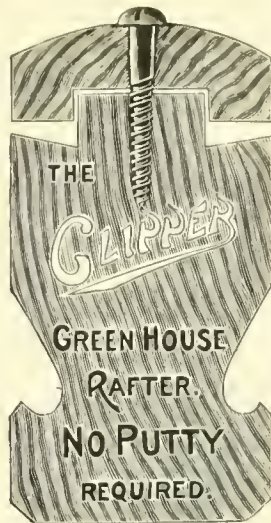
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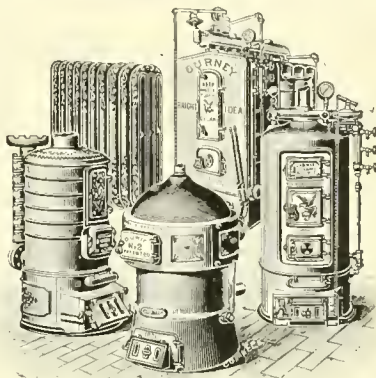


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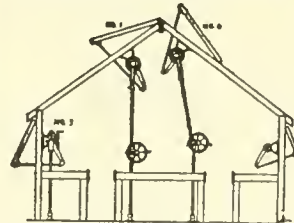
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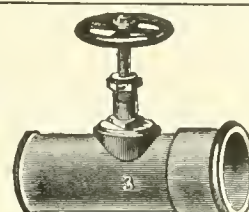
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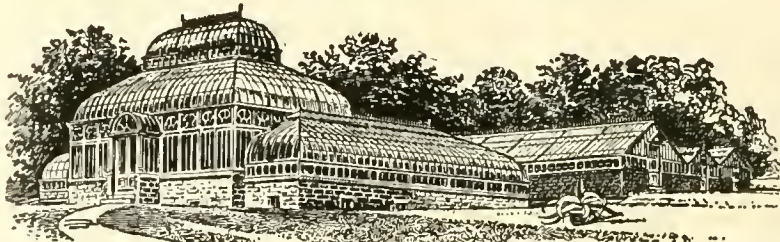
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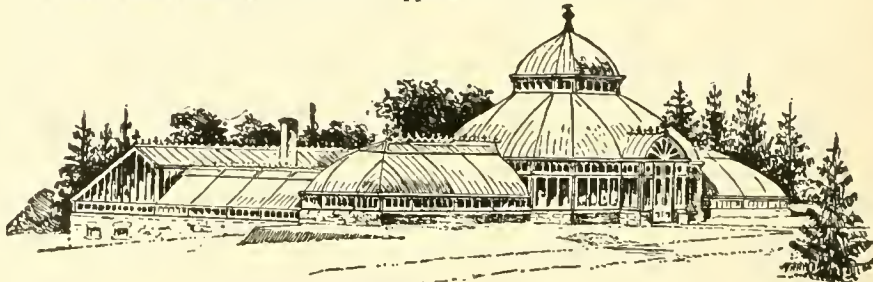
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Vol. XI.

CHICAGO AND NEW YORK, APRIL 25, 1896.

No. 412

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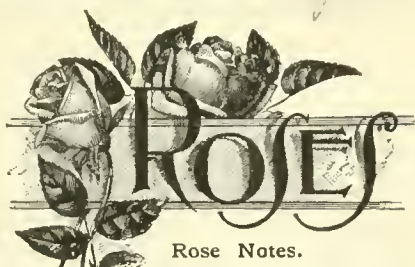
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The twelfth annual meeting will be held at Cleve-
land, O., August, 1896.

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THE Postmaster General has issued a lottery and fraud order against the Monon Seed Co., of Chicago. This concern commenced operations a few months ago, advertising to award a large number of prizes to those making the largest number of words from the letters contained in the phrase "Monon Seeds Grow," each contestant to send money for seeds to a limited amount. This was followed up by an offer of further "neighborhood prizes" in consideration of an order for a bulb collection at \$2.75. The concern did a rushing business until the order of the Postmaster General was issued.



Rose Notes.

The almost unprecedented warm weather of the last ten days has been very hard on blooming plants; coming so early and so suddenly, and with no shading on the glass, the plants were not prepared for torrid heat, the result is a severe drain on their vitality. In such weather it is quite impossible to furnish the necessary food and atmospheric conditions required to keep pace with the rapid growth and development of the flowers. To resort to shading the glass as a means of reducing the temperature, as early as April, at least in the northern states, is rather risky, for a very warm spell is liable to be followed by cold, cloudy and perhaps rainy weather, when shade would be very much out of place. By the time this is in the hands of the readers, should the days be very warm it will be reasonably safe to shade the houses containing blooming plants; in fact to have salable flowers it will be necessary, but no more should be given than is absolutely necessary. I have good reason to think that too much shade is a prolific cause of mildew, plants rendered soft by insufficient sunlight are fit subjects for any parasitic disease that may attack them and once badly affected they are almost incurable. The best material for shading rose houses that I know of is naphtha and white lead, just enough of the latter to make the mixture white; when thoroughly mixed and strained it is easily applied with a hand syringe. Naphtha being very inflammable, suggests great care in handling and storing it, it also evaporates so rapidly that it must be used at once, or the loss is considerable. One great advantage in using the above is the ease with which it can be removed when necessary; a dry duster will rub it off with very little labor; there is no danger of its injuring the paint on the house, which cannot be said of lime.

The warm nights will probably lead some inexperienced growers to pull out the fires, supposing that summer is here, and there is no further use for them. It may be all right to pull the fires, but everything should be in readiness to start them again whenever they are needed, as they surely will be at times for four weeks more. It is not economy to lay the fireman off too soon, it may seem useless to have him around with the outside temperature at 70°, but again his being on hand to regulate the ventilation, and run a little

heat through early in the morning if it gets cool and damp, may reduce your bills for sulphur and make it possible for you to sleep soundly until six in the morning. There is apt to be much more foolish expenditures of money than that of paying a fireman for three or four weeks during May. A little ventilation and a little fire heat when it is cool enough, furnishes the best atmospheric conditions during the night at this season. Amid the rush of potting, etc., we should not neglect disbudding, cleaning, tying, and the weekly application of manure water. As long as the plants are allowed to remain in the house they should receive the necessary attention.

ROBT. SIMPSON.

Eel-Worms.

According to Mr. May's argument on page 785 of the FLORIST all root-galls found on clover roots contain eel-worms, and therefore if we use soil containing clover roots or permit clover plants to grow on our benches we are sure to be afflicted with eel-worms. At least, if not the argument, this inference may be drawn. This is frightful to contemplate, if true. Mr. May has, no doubt, grown more rose plants than I have ever seen, but in my limited experience I have seen many thousands of rose plants grown in soil containing clover roots in greater or less degree and not a single plant was affected with eel-worms. I have grown roses on a very small scale for the past three years in soil cut from an old pasture and containing an abundance of the roots of *Trifolium repens*. In fact the sods were purposely cut where the clover was the thickest, and up to date no eel-worms have appeared.

During the past six months clover plants have been growing on a bed 4x10 feet of roses, in the station greenhouses, and if any eel-worms have spread therefrom to the roots of the rose plants they certainly have not affected the health of the plants. The clover plants are from seeds that were scattered on the bed after having been soaked in strychnine for mice.

Mr. May is no doubt quite right in all his assertions in regard to having found nematodes on clover roots and also it is possible that he has found, at some time, clover roots destitute of galls of any description, but the statement which he doubts is nevertheless a truth; that the great majority of all healthy plants of the Leguminosæ family have swellings, galls or tubercles on their roots which do not contain eel-worms. It is something that has been proven so many times by scientific men in every civilized country of the world that it no longer admits of discussion.

These tubercles were known to exist many years before their cause or value

was known and many were the surmises as to their probable cause. It remained for a German biologist to demonstrate that they were caused by a "bacteroid" which intruded itself upon the host plant and was for a time nourished by it, but repaid this care by assimilating and storing nitrogen and giving up this, with its life, to the plant for its future development. This parasitic micro-organism obtains entrance to the plant in much the same way as the nematode, viz., by attaching itself to a root-hair or other tender tissue. There is certainly a possibility of mistaking them for nematode galls by casual observation, although examination, even under a low power microscope, would show a wide difference.

A mature specimen of *Heterodera radiculicola* is, as Mr. May has said, from one-hundredth to one-fiftieth of an inch in length and distinctly a form of animal life. They may be easily separated from the gall by maceration of the tissues and their outlines plainly discerned, with even a low power microscope. *Bacterium radiculicola*, an extremely low form of plant life, may be observed only by skillful manipulation of a high power lens and with the aid of stains and re-agents. Fifty of these, placed end to end, would rest on the edge of this sheet of the FLORIST and still no danger exist that the ones on the end would fall off!

Prof. Atkinson, of Cornell, in 1889, at Alabama Experiment Station, in a bulletin of December of that year, pages 38-39, notes the following difference: "These tubercles, which recent experiments seem to show play an important role in the acquisition of atmospheric nitrogen by Leguminous plants, are irregularly oval enlargements of the roots, from the size of a pin-head to a large pea, or sometimes elongate, or clavate, or very much branched and convoluted. The root-galls will usually not be mistaken for the tubercles by one familiar with these bodies. The tubercles are formed only on the very youngest roots, so that they are connected with the root from which the diseased one branched by a very slender attachment. Sometimes, however, the attachment is very stout. Usually the surface of the tubercle, though it may be greatly convoluted or lobulated, is smoother and does not present the scurfy or cracked appearance so common, especially in age, on the surface of the root-galls. The root-galls may occur on proportionately large roots and in a majority of cases the attack is made some distance from the end of the root, so that the root continues to grow beyond the gall and several galls may be formed on the same root in succession. The root also continues to enlarge so that few of the galls are attached by such slender pedicels as the attachments are in the case of tubercles I have seen. Since the tubercles vary greatly on the roots of different species there are probably cases in which it would be difficult from an external examination to say whether the enlargements were root-galls or 'tubercles.' The structural characters are, however, very different."

On page 35 of the same bulletin the author also notes the "comparison of root-galls (nematodes) with 'club-foot of cabbage': 'It will be of great interest to compare the diseased condition of the cabbage roots caused by *Heterodera radiculicola* with the disease of the roots vulgarly known as 'club foot' of cabbage, since in many respects the external characters are very similar, while the two



EEL-WORMS. FIG. 1.

diseases are caused by very widely different organisms. The one which causes root-gall, *Heterodera radiculicola*, is, when compared with the organisms of a lower grade, an animal of quite a complex and high organization. The one which causes 'club-foot' is one of the slime moulds, a plant of the very lowest organization, called by Woronin, who first discovered it to be the cause, *Plasmodiophora Brassicæ*."

The two pots of clover plants shown in the cut were grown in the station green-houses during the winter of 1893-4,



EEL-WORMS. FIG. 2

under the conditions noted in the issue of February 22 of the FLORIST. The sand and pots were both burned in a furnace before the work was begun and great care taken at all times that no foreign substance, not even dust, should come in contact with the surface of the sand. Into the pot on the right were introduced a few drops of turbid water, the washings of a small portion of soil from a clover field, in which the solid matter had been allowed to settle. The one on the left was not "seeded" and upon examination, no tubercles or other swellings were found on the roots. Fig. 2, drawn from nature, shows the condition of the roots

of the plants in the "seeded" pot. The swellings marked "t" contained—not eel-worms—but bacteria.

FREDERIC CRANFIELD.
Wisconsin Experimental Station.

Wishing to make sure of the correctness of Mr. Cranfield's position before giving further space to this discussion we submitted the above article to Prof. Wm. Trelease, Director of the Missouri Botanical Garden, St. Louis, with request for his opinion. He replied as follows:

"There is no doubt whatever that Mr. Cranfield's statements about the normal root tubercles of Leguminosæ are all right. I never saw the roots of a naturally grown clover plant that did not bear them, and they have nothing to do with the root-galls of the nematode. The latter affects a considerable number of plants, but I should not look on the clover with especial disfavor. The soil, and decaying masses of organic matter in it, are pretty sure to contain numerous nematodes other than the *Heterodera*, and I have myself seen such in old opened clover tubercles. But aside from all question of the clover, steam sterilizing the soil as recommended by Mr. Rudd and Mr. May, is a good practice where it can be done."

Hybrid Perpetuals on Multiflora Stock.

Stock is obtained either from cutting or seed. Hard-wood cuttings made in spring are fit to graft upon in the following autumn. If seedlings are wanted the seed should be sown early in rich sandy loam. A good many will be strong enough to use the first season, if necessary, but the best plan is to use two-year old stock as the roots will be then much stronger. Strong roots can be cut into pieces six or eight inches long and splice-grafted with the crown of the root up. Grafting may be commenced as early as latter part of November and may be continued until the first week in March to keep up a succession. Pot-grown stock kept in pots all summer will give especially good results.

The grafts should be from firm well-ripened wood but before the plant freezes hard. Avoid long, sappy shoots. If the grower has hybrid-perpetuals under glass the canes pruned from these houses as late as last of December may be used for grafts. These grafts should be tied in bundles (not too many in a bundle as they are liable to get heated) and laid away in a cool pit, packed in damp moss.

The plants, one of which is represented in the accompanying photograph, were taken from the pit about Christmas,



HYBRID ROSE GRAFTED ON MULTIFLORA:

becked in moss till about January 1, then grafted and placed in damp moss in a close frame for about ten days until the grafts got united, care being taken not to over-water. They were then potted up and at the end of twenty days were ready to be brought out into the full light. As soon as the pots were filled with roots they were repotted. Temperature not over 50° at night and 60° to 70° by day. With this treatment the plants bloom handsomely in ten weeks from date of grafting.

JACKSON DAWSON.



Carnation Notes.

The statement made by Dr. Arthur—that the condition of the life of the bacteria within the carnation plant is not the best for its highest development, that the bacteria progress very slowly from cell to

cell, and that the danger from the germ as a parasite lies rather in the great number of chances for centers of infection than in its aggressive character—gives the key to the remedy, or we may better say prevention. When we look for bacteria, examine a carnation leaf by holding it against the light, we may see a few yellow spots, and when badly infected these spots show in great numbers, but always separate, with well circumscribed limits. Larger spots are, as easily can be detected, from different points of infection, but so close that the spots did run together. Each yellow spot contains a colony of bacteria, but the germ of each entered from the air without. We find that when entrance is gained a rapid growth is only effected in the young soft leaves, mostly unfolded and unfinished in their growth. As soon as the leaves attain their full size, when its tissues, the cell walls, become hardened, when the leaf attains its full grown normal texture, it becomes an uncongenial place for the bacteria and its development. From this we must infer that when the soil is in a condition to furnish the plant with all it needs, the nutritive elements, moisture, when the soil is of such a texture so it

will encourage and facilitate root action, when the plant is so situated that it is not impaired in its freedom of growth, when temperature, air and light can be of the fullest influence in a rapid, healthy development of the young growth, we impede the growth of the bacteria. Poor soil, impoverished condition, too close planting, lack of air and light, insufficient support, uncongenial temperature, neglect, anything that will help to retard the plants in their development, to keep it in this soft condition natural in the young growth, will facilitate the growth of the bacteria and cultivate the pest.

Bacteria is aggressive as long as the leaves are young and in a soft condition, or made and kept soft by a wrong mode of cultivation. But as Dr. Arthur says the danger lies in the chances of many centers of infection, in other words, in so many places for the germ to enter. A few yellow spots will not impede the plant to a great extent, but when the leaves are dotted all over it is surely a great impediment and may result in its total destruction.

When we want to meet and prevent the entrance of the bacteria we must learn and know how it gains admittance, and this is a very interesting chapter of the bulletin. Dr. Arthur says: "Our study of the disease gives no evidence that the germs are able to effect an entrance through the cuticle of the host by means of an enzymic perforation. On the contrary, they are dependent upon either natural openings (stomata) or accidental punctures (insect stings) to get inside the plant. The stomata (breathing pores) are the usual points of attack. Germs of the disease which have been deposited upon the surface of the host by wind or rain find their way through the opening between the guard cells into the air chamber beneath." Here their ravages begin, force entrance from cell to cell in the living tissues, as long as in a soft condition; the hardening of these tissues will check their work. Again he says: "It is evident that after the bacteria fall upon the leaf sufficient moisture must be present, so they may move about and find their way into the cavities of the stomata. A natural dew or artificial sprinkling will furnish the needed moisture. And so it is that plants in a greenhouse, where the air is kept moisture laden, will show most disease." What more natural conclusion will follow in our effects of prevention than only to wet the soil and keep the leaves dry, and not only keep the leaves dry, but have a buoyant dry atmosphere in the house, and that can only be regulated by a judicious ventilating in a roomy house. A natural dew is often formed in a house after a syringing with not sufficient time to dry up before night, and will be increased by a too low night temperature, or when a part of the house is warmer than the other.

To touch again the susceptibility of the young growth being attacked by the disease only, this apparent preference is explained by Dr. Arthur as follows: "The cellulose walls of the stomatal air cavities are easily penetrated in young leaves, but in mature leaves they have become incrustated with lime salts deposited from the evaporating water, and are also somewhat changed chemically, making them less susceptible to the action of enzyme, and consequently almost impervious to the bacteria." Undoubtedly bacteria will enter older leaves as well as the young, but find the field for development too uncongenial and hard. This all tends to show that only a healthy normal growth will impede the bacteria in their work.

Regarding other entrance for the bacteria beside the natural way of the pores, Dr. Arthur says: "Beside gaining entrance to the plant through natural openings the germ of bacteriosis may enter through insect punctures. The only insects that require attention in this connection are plant lice (aphides). The common greenfly or aphid of the greenhouse may in some instances prove such an efficient bearer of the contagion that every leaf on a plant may be inoculated at hundreds of points, and the whole plant be turned a sickly yellow by the growth of the bacteria in the tissues. It is evident that only in a neglected greenhouse will the disease be seriously spread by this means, for only in such would the aphid be allowed to flourish."

From all this we must come to the conclusion, and it has proved with me a fact, that the bacteria are ever ready to begin their work when they find a congenial field, and the only remedy, or rather prevention, is a careful, judicious culture that will make the plant grow on strong and uninterrupted through the whole time of its existence. FRED DORNER.

Yellow Carnations.

Had Mr. Dorner used the phrase "general cultivation" in his first letter as in his second I should have found nothing to criticise; I only feared that he was not aware of the facts, or that he was giving a false impression unintentionally. My experience has been the same as his with pure yellows. It seems as if nature abhors them, but I still hope that we may be able to get vigor with purity of color. There is one sentence in Mr. Dorner's letter which I should like to have explained, as it places me in rather an unfavorable light. "The yellow bloom sent with the communication I suppose was intended to show a clear yellow one, * * but I could detect some pink stripes in some petals." I sent no flower with my letter, yellow or otherwise, and hardly see how Mr. Dorner could find one with it. EDWARD SWAYNE.

I am sorry that the description of the yellow bloom has been coupled with Mr. Swayne's communication. It was sent to me with the letter, requesting an answer, and must have been mistaken in the office of the AMERICAN FLORIST. I am so much more glad to make this statement, as I hardly could believe Mr. Swayne would pronounce that bloom a pure yellow. FRED DORNER.



Orchid Novelties.

A number of orchid novelties, either new species or varieties, or new hybrids, were recently passed upon by the Royal Horticultural Society in London. *Epidendrum elegantulum* was one of the hybrids receiving a first class certificate. Its seed parent was *E. Wallisii*, pollen parent *E. Endresio-Wallisii*, itself a hybrid. The sepals and petals are rich brown, mottled with yellow, passing into soft yellow at the base, the lip white marked with purple. *Cymbidium lowioeburneum*, which is the reverse cross of *C. eburneo-lowianum*, has creamy white sepals and petals, with a lip of the same



CYPRIPEDIUM SPECTABILE.

hue, having a red horseshoe shaped blotch at the apex, and some red spots on the side lobes. It was also certificated. *Miltonia blenana aurea*, another hybrid, is white, the base of the petals rosy mauve, with a large orange blotch at the base of the lip. It was awarded a first class certificate.

Laeliocattleya Doris is a new bigeneric hybrid, the parents being *Laelia harpophylla* and *Cattleya Trianae*. The petals and sepals are deep orange, the lip has an orange tube, purple on either side of the apex. *Dendrobium Doris*, a hybrid from *D. leechianum* and *D. japonicum*, is very delicately pretty, the flowers being pure white with a light purple blotch on the lip. A new species which received a botanical certificate, is *Dendrobium glomeriflorum*, which has dense lateral clusters of small white flowers, tinted with lilac on the outside. *D. Cassiope virginialis* resulted from *D. japonicum* and *D. nobile album*. It is pure white, with a rich purple blotch at the base of the lip. *Zygopetalum Perrenondii* is a beautiful novelty resulting from a cross between *Z. intermedium* and *Z. maxillare Gantieri*. The petals and sepals are of olive green barred with brown, and the conspicuous lip is a rich violet color.

Odontoglossum Wilckeanum, Pitt's variety, has caused much enthusiasm among those who have seen it; a small plant was recently sold at auction in London for 74 guineas (about \$370). The ground color is light yellow, shading to cream at the edges. The sepals have two-thirds of their surface covered by large brownish red blotches. The petals have numerous smaller blotches of the same color, the lip having one large blotch in the center, and a smaller one on each side of the yellow crest.

The Native Cypripediums as Forcing Plants.

Cypripedium spectabile, one of the most beautiful of our native orchids, is usually found in our northern swamps in limited quantities and when a few clumps are forced carefully they compare most

favorably with the choicer and more expensive foreign species and varieties.

For collecting the roots from their native haunts, early September, just as the leaves are turning yellow, is the best time. If possible it is best to do your own collecting so as to select suitable roots with strong flowering pips. All the weaker roots should be set one side for planting out around the grounds.

In their native haunts both *Cypripedium spectabile* and *Cypripedium pubescens* are comparatively surface rooters, their mat roots seldom reaching six inches below the surface in a light peaty soil. This should be borne in mind in potting them up, which should be done as soon as the clumps are received from the woods. Have the soil light with plenty of leaf-mould and old peat and make the drainage very good. The clumps can be crowded in the pans quite thickly, care being taken not to cover the crowns too deep with soil or they are apt to rot. After potting they should be top-dressed with a thin layer of sphagnum moss and after a good watering should be placed in a cold frame where they should remain until they are brought into a temperature of about 55°, not earlier than January 1, and the later the better.

The crowns will take their time about breaking, it sometimes being 3 to 4 weeks before they show signs of starting, but after once starting the growth is very rapid and care should be taken not to let the plants get drawn or weak. If possible they should be placed in a cooler temperature where the growth will get hard and the flowers allowed to develop slowly. As soon as the flower buds commence to appear great care should be taken to avoid all excess of moisture, as the delicate tissues of the flowers are very sensitive to moisture. During the process of growing the plants will require careful attention in regard to watering, as they are heavy drinkers and yet the young growth is sensitive to rot, so extremes must be avoided.

From 10 to 11 weeks is the time required to bloom the plants from the time they



CYPRIPEDIUM ACAULE.

are brought into heat, and after they have passed out of bloom they should be grown on carefully for the succeeding season, when they will do equally well for three to four years to come. This is also true of *Cypripedium pubescens*, which is the easiest of all our native cypripediums to grow under cultivation. About 8 weeks is sufficient time to bloom this species and from 6 to 7 weeks for *Cypripedium acaule*. *Cypripedium acaule* should be collected new every fall, as it is extremely hard to carry it over from year to year.

All the above are truly herbaceous plants, dying down every fall and making a distinct crown (like lily of the valley) which the gardener should take care to develop to its highest state. *Cypripedium spectabile* grows to a height of from 2 to 3 feet, stem covered with large leaves. The flowers are white with globular lip painted with pink. *C. pubescens* is a little dwarfier than the above, having yellow flowers, and *Cypripedium acaule* is the common stemless lady slipper usually found in pine woods.

CHAS. JACKSON DAWSON.

A Novel Method of Fumigating.

A piece of work, which promises to be of very great importance to those in the trade, was successfully carried out April 16 under the direction of Prof. Galloway, chief of the division of vegetable physiology and pathology in the Department of Agriculture; this was an exhibition of a new method of fumigating plant houses by the aid of cyanide of potassium. This deadly chemical has for several years past played an important part in the fumigation of orange trees in the Southern States. Prof. Galloway conceived the idea that it might be utilized in greenhouses to kill insects, especially the pest which seems to be spreading everywhere, commonly known as the "black spotted mealy bug," the scientific name of which is *Orthozia insignis*. This little pest is a native of the tropical parts of South America. It was first observed in some greenhouses in New York State some five years ago, and seemingly from this beginning it spread

over a wide area in a short period, until now there is scarcely a greenhouse establishment free from its ravages. Several of the insecticides in common use have been tried on it, and while they kill a great many of the insects, in a short time the plants are as bad as ever. Prof. Galloway therefore made a number of experiments in his laboratory with certain chemicals, to ascertain the exact quantities which could be used to destroy the insects and yet leave the plants in an uninjured condition. To Mr. G. H. Brown, of the propagating gardens, he showed some of his work, and that gentleman placed a house of coleus at his disposal which were so badly infested with the *orthozia* that they were almost unfit for bedding purpose. The house contains in the neighborhood of 15,580 cubic feet of space.

The time chosen for the work was after darkness had set in, as strong light so changes the character of the liberated gases that they are then more hurtful to the plants than to the insects. The ingredients used in the operation consisted of water and sulphuric acid, three pints of each, and 5½ pounds of the cyanide. This was divided up into three equal parts and placed in three 2-gallon jars, arranged at intervals on the side benches, and near enough to the ventilators so that the operations could be conducted with safety from the exterior of the house. Arrangements were also made so that air could be given at the top when the gas had done its work. Into each jar water was first poured, then the sulphuric acid, this raised the temperature of the compound to 212° F., when the cyanide was added, and the ventilators closed tight. The resulting gas permeated every part of the house within two minutes; after the expiration of twenty minutes air was admitted to the house. When it was deemed safe to enter in an examination of the plants was made, and not a live insect could be found anywhere, even the eggs situated in the appendage to the body of the female were in a discolored condition. Next day the search was continued with the same satisfactory results. The gas did not seem to have

had the slightest deleterious effect on the foliage of the coleus, nor on even more tender foliage, such as the tender fronds of *Adiantum cuneatum*, the leaves of *Cyanophyllum* and *sphaerogynae* and several other things. The cost of the operation is insignificant, \$3 covering all expenses.

C. L. REYNOLDS.

Conducting a Retail Store.

BY W. S. SCOTT.

[Extract from a paper read before the Milwaukee Florists' Club April 7.]

A store should be a model of neatness to begin with, and kept so as nearly as possible. It need not necessarily be luxurious in its appointments or gorgeous in its appearance, but it should be neat and clean. If there are good show windows the glass should not be obscured by the dirt of several weeks, but should always be a clean and polished as brightly as will permit. A tasteful arrangement of cut flowers or plants is an attraction the value of which can not be overestimated. This is current history, being made every day, and is evidenced by the fact that the largest retail commercial houses to-day pay a window trimmer who knows his business a larger salary than they do a department manager.

The interior of a store should not be allowed to suffer; it should reflect the beauty of the show windows. The floor should be swept as often as necessary, and after that a thorough dusting should follow. Glass in your cases should be cleaned regularly, the incandescent lamps polished, all flower pots washed clean; all these little details attended to. It may take time to do this, but the time is well spent, for a stranger entering your place will come to the conclusion that where there is cleanliness in that line there must be as much attention paid to the other details of the business.

In the retail business a dealer should make it one of his rules to do exactly as he promises. Bear in mind that deception is something which can not be put upon a wide awake customer a second time. If fresh flowers are promised send fresh ones; if flowers are promised at a certain hour have them there at that hour. Don't promise one thing and do another. It is better not to take an order than to do so and not fill it according to promise. If a person wants a design in pink and white, make it so, don't substitute your own ideas for that of your customer. They are paying for what they order and it is your place to give them what they want.

In the delivering of cut flowers or designs the same rule of neatness and cleanliness should be observed. The boxes should be clean, the flowers tastefully arranged, the package securely tied and see that it is delivered in the same condition. As for plants, all dried or dead leaves should be cleaned off, the pot washed—or what is better a new pot should be substituted—and the plant carefully wrapped so that when it is delivered the recipient of it will feel that you wish to do your best to serve him. The ideal manner of delivering is a neat and clean wagon, a driver and a boy in uniform, polished shoes, clean collar, also face and hands. These are probably ideals, gentlemen, but we will find that the first to introduce them in this city will reap his reward.

Of course it need scarcely be noted that there should always be courteous yet decided treatment accorded to all customers. Let them understand that you appreciate their trade, yet do not allow them to think you should bow before

them and be submissive to all their whims.

The foregoing are matters which have impressed themselves upon me during my brief career in the retail business. That I do all that I have written is not said. There are some things there which Milwaukee is hardly ready for, yet, if the florists intend to keep up their end of the retail business they must follow the examples of other retail trades. One thing first desirable is to obtain customers, and one of the best ways to do so is by judicious advertising. For this the best mediums undoubtedly are the daily papers, followed by theatre programs, for theatre goers are largely flower buyers, and then a well written and well printed booklet, sent in sealed envelopes to prospective customers, is not at all a bad idea. In advocating advertising do not understand me to mean that you should spend money recklessly, for there is no doubt but that injudicious advertising is one of the most expensive items in the retail business.

In all matters in the florist business, as in all others, there should be a close watch kept on the expense account, but it is a bad policy to be niggardly and close, for it is only by liberal dealing with one's customers that one may expect to keep them. If you should receive a check for a bill instead of sending the receipt by mail, if in the city, put up a few flowers, not necessarily an expensive lot, and send with the receipted bill. The customer appreciates it and you are quite certain to receive returns. It flowers are not cheap send a plant. We have done this for the past two years and found it a good investment. There are many details of this character which may be attended to and if judiciously looked after will add not a little to your volume of business.

And another thing, perhaps a little moss-covered, but nevertheless important, why could we not all stand on an equal basis before each other, be friendly, talk about business freely, and not feel that we are figuratively speaking, trying to cut each other's throats. I do not hope for any love feast but the fact is there is too much jealousy among the members of the trade, and I am certain that better results would be secured were we all amiable and friendly to each other.

Mushrooms.

BY JOHN G. GARDNER.

[Read before the April meeting of the Philadelphia Florists' Club.]

The material I have used for beds has been chiefly fresh manure from horse stable, with soil or well rotted manure mixed together in proportions to which system of culture was to be adopted; I must say that the general system in use by many of mixing material is fatal to a good all-round crop, as the bed formed under the old system has a very complicated service to render. First it is the home of the spawn; secondly, it must furnish the necessary warmth, for a healthy and free growth; thirdly, it must supply the general food for the mushrooms' development, so if any of these conditions fail a good crop cannot be gathered.

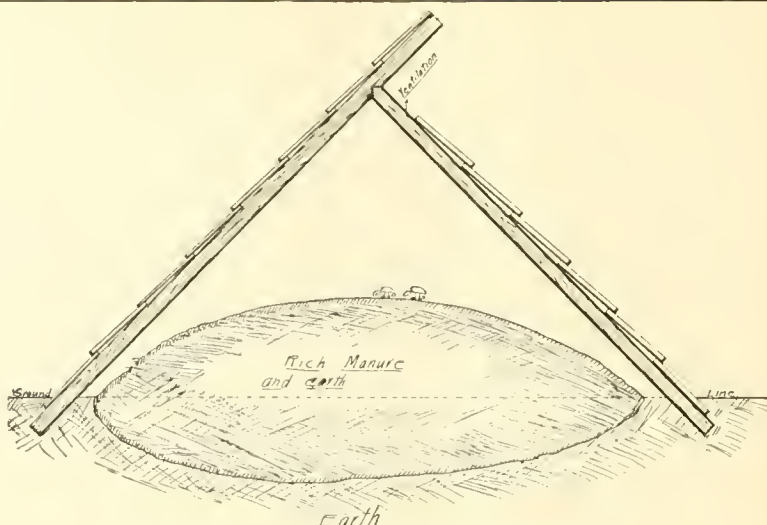
In the culture of mushrooms in greenhouses under benches, etc., we will start at the forming of beds, and taking into consideration that the temperature of the greenhouse will furnish warmth for a healthy growth, which relieves the bed, the material may be half fresh manure with the straw left in, and soil and well rotted manure, well mixed together and put down in layers. In using soil care must be taken to half lift and shake

slightly, so as to let the soil filter down among the straw; this will prevent burning and drying out, and the bed will need less water. The fermentation will be slight and the decomposition of the mass slow, which is one of the chief features in keeping up a constant supply of food for mushrooms. Keep adding layers until you have a depth of 14 inches, the material kept pressed down until it become firm and the bed will be ready in a few days for spawning.

I have used hotbed sash or shutters as a covering for beds under benches, having placed 3 inches of rye straw over glass, tacked on with plastering laths to shut out light and sun with good success, closing down sash or shutter during days and propping them up at nights 6 to 8 inches. Canvas and paper I have used to cover and close in beds, but not with as good results as sash and shutters, owing to the effect upon them, during day time, of light and sun, which make too rapid charges of temperature for the very sensitive mushroom. I have had the best results when I could maintain a temperature of 55° to 60°, slightly moist, with a wholesome air. The mushroom needs good fresh air, but not in the way of a severe draft. The air must be changed each day and a slight moisture kept up. If the air is too dry the mushrooms will crack and become scaly on top of cap. If too moist they will draw up with long soft stems and small caps and become useless for market and shipping, and if the excessive moisture is kept up 48 hours all the small mushrooms the size of a pea will turn brown and rot; many beds are missed in this way. All decaying stalks should be removed from beds. I cut all my mushrooms, not pull them, and in three days after cutting I remove stalks, at which time they will separate from spawn without pulling out and damaging it.

If you watch the natural mushroom, in open pastures, you will find they spring up where the grass is short and the air is moist, the light and sun changing the conditions each 24 hours. In heavy long grass laden with moisture no mushrooms can live, although in the same spot, if grass was cut and removed, mushrooms would spring up, showing us very plainly that the condition was too moist, and with no circulation of air to form the atmospheric conditions that mushrooms develop in.

I advise making mushroom beds early in September, bearing in mind that the



SECTION OF MR. GARDNER'S MUSHROOM PIT.

best results come from a slow and prolonged fermentation, and beds that dry and burn out will not pay. Make no beds less than 14 inches in depth when packed down.

I now give you my experience in a outside small pit system of mushroom culture. I have here with me a small sketch of structure needed. The material is 3x4 hemlock and boards. You will see that the lumber bill will not be large. The first operation is to dig out a trench five feet wide and 14 to 16 feet deep in center sloping down banks to center. Mix together manure and soil, and form bed in trench, high enough when complete to be 9 inches above ground level, when well tamped down. Now take 3x4 material and form rafters for a span roof, allowing the north side rafter 8 inches longer than south, so as to over-lap. Now take boards and place them lengthwise overlapping like shingle roof to turn water, the north side boards may be nailed fast and the south left movable, leaving in south side 6 inches of space for ventilation at top, where the overhanging roof of north keeps rain out. When gathering mushrooms, the south side boards may be taken off to allow space to reach in freely. Mushrooms can be grown during April, May, June, September, October and November, under this system. The only attention the bed will need is a slight watering when crop is cutting and the pit covered with litter or long manure, to keep off sun and frost. I have used a bed several years by adding 4 inches of new soil and manure, which had been in compost, spreading it evenly over the surface of bed. The beds should not be allowed to get water soaked, and ground must be graded, to turn all surface water. During July and August, I let in a good supply of air and remove litter, and the beds becomes quite dry upon the surface, and I give no water until September to start them up again, anyone having space outside can raise good mushrooms in this way with little expense for material and labor, etc.

I have found that in total darkness mushrooms, during their growth will turn and draw over to air circulation, the same as fibre making plants turn to light, which makes it very clear that the air of the mushroom house must be considered of great importance. The best means to keep the atmosphere of a mushroom house moist is to place a few barrels of fermenting manure in the house, changing them when cooled off. This is a bet-



SWANLEY WHITE VIOLET GROWN IN A POT.

ter plan than syringe and watering pot, and the risk of getting beds too wet is avoided. The ventilation must be from the top, or above the bed, avoiding all strong currents of air passing over the surface of beds when in bearing.

I have used hot water and steam for heating, but prefer the former. No pipes should be placed near surface of beds. A temperature 57° will bring rapid growth and if air is perfect a good supply of mushrooms will be the result. All sudden changes either of temperature or atmosphere, will affect the mushroom and should if possible be avoided. In regard to spawn I like the brick form best, and use it perfectly dry and so on beds when temperature is below 90° and with a tendency to fall.

Many times I have been asked what weight of mushrooms is it possible to raise per square foot. To answer this question fully you must know the length of time, the conditions of cellar, pit or house. I have a cellar below ground from which I can cut mushrooms nine months of the year. Now in a greenhouse five to six months is all the time possible. In Jobstown in 1886, I kept record of cut from 24 hotbed sash and I cut during five months an average of 107 pounds per sash. I have a cellar below ground 50x20 feet that has yielded 80 pounds of mushrooms in one day and the average of same cellar in 1886 was 9 pounds per day for 8 months. I have a mushroom bed under barn at Conshohocken where 360 pounds mushrooms were cut in one week, but this is an exceptional case.

Pot Culture of Violets.

Economy of space was the leading motive that induced us to experiment with violets as pot plants, and not only has this method proved economical but the quality of the produce and the health of the plants has improved yearly.

Runners are taken from the strongest plants during February or March and

dibbled in boxes of sandy soil, kept carefully watered and shaded until well rooted. They are then removed to cold frames where they remain until planted out in field. This is done early in May, selecting a moist time. We do not practice watering at any time during the summer, preferring if the season is very dry to give a generous mulching of old manure. Hoeing among the plants to keep the soil loose and weeds down, and taking off useless runners is all the attention given through the summer.

The soil we use is composed of rotted sod three parts, old hotbed manure one part, adding a slight sprinkling of wood ashes. We start potting the second week in September, using 8 and 9 inch pots, care being taken to have them provided with sufficient drainage. In lifting we preserve all the roots possible, and the soil in the pot is made firm with the potting lath.

When potted they receive a thorough watering and are then stored under shaded sashes in the cold frames. Air is freely given day and night and syringing is attended to on bright days. They are kept in frames until chrysanthemums are gone, then taken into the greenhouse and are treated as regards watering and temperature as if they were planted out on benches in the usual manner.

ALEX. MCKAY.

South Framingham, Mass.

Mushrooms.

[Abstract of a paper on the edible and poisonous kinds, read before the Massachusetts Horticultural Society by William C. Bates, vice-president of the Boston Mycological Club.]

"We shall consider the subject, 'Mushrooms, Edible and Poisonous,' almost entirely from an economic point of view, that is, in relation to their value as a food product.

"Mushrooms have been eaten since the earliest times, especially in early Roman times, and have been used in large quantities and in considerable variety for two

or three hundred years in Italy, France, Russia and Germany. The common people of France and Italy depend on mushrooms to supply their tables, and seem to have an intuitive knowledge of the edible varieties. Mushrooms are gathered on the Himalayas and in the Vale of Cashmere, dried and shipped to Europe; Japan exports to China large quantities; Patagonians have them for an exclusive diet part of the year; in New Zealand and Australia the consumption is very noticeable, and yet in this country the use of mushrooms has been confined to a limited area, and until a few years to a single variety and that not one of the most conspicuous, or, in the opinion of many mycologists, the most valuable, the mushroom of commerce, *Agaricus campestris*, with its several varieties. The reason of this is not far to seek; first this mushroom is almost the only one which is known to lend itself to artificial propagation, and so has become better known as an edible species than any other; and second, because of a wholesome and necessary fear of bad results from eating poisonous mushrooms, for it is known to all that some are very injurious if eaten; in fact, it is probable that every year there are a number of deaths in the United States from this cause alone.

"It may be argued from this that if the use of our native mushrooms is made more popular and general, these fatalities will largely increase; this would undoubtedly be the case, unless the knowledge of the poisonous varieties goes before and with all acquaintance with mushrooms, and this knowledge it is the aim of mycologists to make prominent and foremost in all speech, writing, or object lessons, by exhibition or photograph, given upon the subject. There is but one way by which this knowledge may be obtained—we must learn to know them—that is, learn to know at sight certain edible varieties and the poisonous species; there is no other way 'to pluck the flower safely from the nettle danger.' This knowledge is not so difficult of acquisition as it seems. In recent years upwards of two hundred varieties of mushrooms have been tested, identified and branded for all time and all climates as edible, but perhaps the most notable service of all is the running to earth of the arch enemy of all, the 'Deadly Amanita.' To this species all the fatal results of mushroom poisoning are traced, and it follows that if we can banish this species from our diet comparative safety is assured. It is now generally known and admitted that from the genus *amanita* arise all the accidents. We cannot find other species chargeable with fatalities. This is not to say that all other mushrooms are edible; there are others that are injurious and others unfit for food, but it would seem that if we had learned to know the *amanita* half our battle with ignorance is already won, and we are on the road to safety in gathering mushrooms.

"The principal divisions of fungi which are to furnish this abundant food product are the mushrooms with gills, laminae or plates, the most abundant and common form, the agarics; mushrooms with pores on the under surface, the Boletini and Polyporei; mushrooms with spines; and the miscellaneous, as the puff-balls and coral mushrooms. The *amanita* belongs to the agarics; it follows, therefore, that in other species we are free from its dangers, though we have still to learn which of the boleti and others are fit and proper for food. But the agarics are a large family and we cannot part with them on account of the *amanita*. This brings us to some

considerations of the manner of growth of mushrooms in general and the amanita in particular. Mushrooms may be considered as the fruit of the plant itself, which is a thread-like substance below the surface—the mycelium of the mushroom. In the proper conditions the growth is quickened and little knobs begin to grow and soon push above the surface. In this first stage the mushroom is enclosed in an envelope or volva, which is soon ruptured and leaves behind it, in the amanitas, several indications of its presence. These may well be called nature's danger signal. As the mushroom grows, a portion of the ruptured envelope adheres to the cap; another portion, 'the veil,' connects the cap at its edge with the stem, and another part remains at the base, a cup or sac, from which the stem rises. As the cap expands, the scales or warts remain on it, the veil falls away from the rim and surrounds the stem, the sac remains at the base, and we have the complete *Amanita verna*, a deadly poison. This mushroom is one of the most attractive in appearance, pure white, without distinct odor; it is very common, generally accompanying edible species, and would be likely to be the first to be selected by the untrained person. As the scales upon the pileus or cap are missing at a later stage of growth or would be rubbed off by contact, it will be seen that if this mushroom were cut above the volva at the base it might give no indication of its character; hence the impossibility of accepting a miscellaneous basket of mushrooms without a certificate of character. The rule of safety is, as all amanitas grow from a volva or sac, gather no mushrooms growing from a volva or cup. If there are scales on the cap and a veil-like ring and the color is pure white, scarlet, orange or yellow, we should look for the cup, and as it is not always visible above the ground pass the knife below the surface, taking care to lift the whole. The *Amanita muscaria* is orange, yellow or scarlet, with scales or warts upon the cap, a distinct veil or ring and a volva. The student is not to be content with verbal descriptions, but should turn to the colored plates now available, in the works of W. Hamilton Gibson and Captain Julius A. Palmer, Jr.; the reports of the division of microscopy, department of agriculture, by Dr. Thomas Taylor; and the English works of Mrs. T. J. Hussey and Rev. M. C. Cooke. If possible he should have practical instruction from an expert friend.

"Now let us turn to a pleasanter phase of our subject, and consider some edible species, which cannot possibly be mistaken for poisonous ones. The number of edible species is much larger than is generally supposed; upwards of two hundred have been catalogued, and any mycologist should have an eating acquaintance with from fifty to one hundred. The plate, from the report of Dr. Taylor for 1894, may fairly be put before the student as his task for a single season. If he accomplishes this nature will ever after have a new meaning to him, and these twelve edible mushrooms will furnish him a succession of healthy, nutritious diet from spring to early winter. These twelve species are *Lactarius deliciosus*, *Cantharellus cibarius*, *Marasmius oreades*, *Hydnum repandum*, *Agaricus campestris*, *Coprinus comatus*, *Morchella esculenta*, *Clavaria cierea*, *Clavaria rugosa*, *Boletus edulis*, *Lycoperdon giganteum* and *Fistulina hepatica*."

Mr. Bates then carefully described and illustrated by stereopticon views some

twenty or thirty edible mushrooms, common to the United States, including the *Chanterelle*, *Coprinus*, *Fistulina hepatica*, *Boleti*, *Clavariæ*, *Russulas* *Hydnei*, *Puff Balls*, *Marasmii*, *Agaricus campestris*, *A. ostreatus*, *A. ulmarius*, etc.

OBITUARY.

DAVID ALLAN.

On Sunday, 19th inst., all that was mortal of David Allan was laid away in Cambridge Cemetery beside his wife, who died a few weeks ago from the same disease that took him away, consumption. The body was laid out in a bed of *Dendrobium nobile Allanium* and other rare and beautiful blossoms of the orchids he loved so well, and was followed to its last resting place by many of the friends who knew from past experience the generosity of his heart, who loved him for his simplicity and ingenuousness, and who had sympathized with him in the succession of misfortunes that had begun with the burning of his home and its prized contents three years ago, and which with the discouragement so keenly felt by a man of his peculiar temperament must in a considerable degree have hastened his untimely end.



THE LATE DAVID ALLAN

David Allan was born in Banffshire, Scotland, on October 16, 1853, and served his apprenticeship at Ballindalloch. From here he went to Gester House, East Lothian, and afterwards to London, where he was employed in the public parks for a short time. His next position was with Sir Wm. Marriott, the great orchid enthusiast, in Dorsetshire. He came to this country nineteen years ago, finding employment on the lovely Pratt estate at Watertown, Mass., where after about two years he was given entire charge, remaining until the place was discontinued. While at Mr. Pratt's he displayed wonderful skill in the cultivation of grapes, orchids, ferns and stove plants. He soon became one of the leading exhibitors at the shows of the Massachusetts Horticultural Society, evincing rare taste in arrangement as well as cultural ability and winning many medals and diplomas. He served on several important committees in the society and was an active participant in all horticultural events in Boston. His hospitality was instinted, and members of the craft always found an open door and hearty welcome from David Allan and his little wife. He leaves two daughters, aged seven and nine years respectively.

Boston.

The weather of the past few days has worked an almost miraculous change in the appearance of the country. Long green grass covers the lawns which ten days ago were brown; trees and shrubs are coming rapidly into leaf and spring

flowering bulbs make the gardens gay. In outdoor work there is almost a panic, it being necessary to crowd the work of several weeks into a few days, and the nurserymen and hardy plant dealers find it impossible to keep up with the demand. The effect on the cut flower trade is just the opposite. There is a tremendous over-production of everything and little demand as compared with the supply. Prices have gone to pieces; "take what you can get" is the rule forced upon the growers by present conditions. The funeral of the theatrical manager, John Stetson, made a gratifying call for flowers, and there were many very large and elaborate designs ordered which made a good inroad for the moment on the stock in market.

On Wednesday, April 22, Edward Hatch had a sale of hardy roses, rhododendrons, etc., for C. H. Joosten, the stock coming from the Boskoop Nursery Association. There was an old time crowd present and prices were good. Mr. Hatch entertained his friends in the florist trade at his cottage in Scituate on Patriot's Day.

N. F. McCarthy & Co. have begun the regular series of plant sales and will continue throughout the season on Tuesdays, Thursdays and Saturdays. Indications are that the auction business will be equal to past seasons in volume.

Mayflower peddlers are abundant in the streets and the effect is felt by the florists in the diminished call for violets and carnations.

Visiting Boston: A. T. Boddington, Short Hills, N. J.; C. H. Joosten, New York; Martin Reukauf, Philadelphia; W. A. Manda, South Orange, N. J.; E. O. Orpet, South Lancaster, and Geo. McWilliam, Whitinsville, Mass.

New York.

The heated term which came on so suddenly and has continued so persistently during the past week, has wrought destruction in the flower trade here. Never before have values been so quickly and thoroughly wrecked. To say that sales of good roses have been made as low as \$2 per thousand conveys but a slight idea of the situation, for a great many have been thrown away through lack of any other possible means of disposing of them. Carnations have felt the severe effects of the hot weather to such an extent that large quantities have been unfit for sale by the time they arrived in the city in the morning, being ready to go to sleep at once as soon as the boxes were opened. No variety and no quality seem to be exempt from these consequences, and the net results of sales must necessarily be disheartening to both growers and dealers. Violets do not show the effects of the weather as much as would be expected, many lots being still received in fine condition, but the prices obtainable are infinitesimal in the present over-crowded condition of the market. Buyers are very scarce. The fine roads, green grass and budding trees make outdoor life very attractive, and customers are spending their money on bicycles and their time in the parks, and the flower trade comes in for little encouragement under such circumstances.

The third annual ball and floral fete of the North Hudson Florists' Club on Wednesday evening, April 15, was an unqualified success, and most creditable to the gentlemen who had devoted their time and interest to the occasion. The hall was lavishly festooned with evergreen and the stage was a perfect garden of palms and blooming plants, which

served as a screen behind which was stationed Prof. Eckert's orchestra, who furnished the musical part of the entertainment with creditable energy and spirit; their familiarity with Scottish melodies being something remarkable, suggesting just a suspicion that canny John Birnie had been coaching the aggregation. The grand march to supper was executed with as much enthusiasm to the tune of "The Campbells are Coming," as if the pace had been set to the music of "Mein Vaterland." All the youth and beauty of Hoboken were there, and the merriment was fast and furious until day dawn. The affair was in charge of Mr. Chas. Deitz, who officiated as floor manager, with the following assistants: Chas. Menne, Chas. Heins, M. Hansen, A. Bartsch, H. Steiger, John Birnie and H. Baumann, supported by a reception committee of twenty-five.

Mr. Dimmock was greatly pleased at the results of the recent auction sale of orchids at A. & F. Rolker's from F. Sander & Co. It was a most successful sale and a large quantity of commercial varieties was disposed of to the trade at satisfactory prices. There was also a good representation of amateurs present, who eagerly secured the novelties.

The entire collection of orchids and greenhouse plants belonging to the F. Schuchardt estate, Newtown, L. I., will be auctioned off on April 29, by Wm. Elliott. The list includes a great variety of cattleyas, cypripediums and dendrobiums.

Mr. Thomas Young, father of Thos. Young, Jr., and John Young, celebrated his eightieth birthday on April 15.

Alfred Outram sailed for England on April 18, per steamer Etruria.

Visiting New York: Wm. Griffin, Lenox, Mass.; George Field, Washington, D. C.

Mr. and Mrs. E. V. Hallock sailed for California via Panama on Monday, April 20.

Philadelphia.

The weather is still hot enough for us, and entirely too warm for the business, both from the growers' and dealers' standpoint. The past week has been the hottest on record for the season; stock will not keep from one day to another, and in many cases is not fit for sale when first offered by the growers. Brunners pop wide open on the plants, as do Jacques, and all other roses show the effects of the hot sun or shading to prevent it. The loads of the hustlers have increased from two to three times over what they carried two weeks ago, and the pack horse of the Rockies isn't in it with some of the poor fellows who struggle along with five to six boxes on each arm, selling a few in this shop and some in another, and finally dumping the balance in some fakir's arms for a song.

The Kaiserin is beginning to assert itself, and the fact that it is fixed firmly as the best summer rose is quite apparent. What a grand summer rose is the Testout. Good stock of this variety brought \$8 per hundred all through the summer in the New York market last year, and several large growers are planting it largely for the coming season. Carnations of some kinds are scarce; good pinks are eagerly taken at \$1.50 to \$2, but most other colors are plentiful; \$1 to \$2 is the range of prices. All the varieties that seem to be related to Buttercup or that resemble that variety in form and color seem to enjoy the warm spring weather and are now at their best. The Beauty rose has been a

good seller the past week; there have been great quantities about, and as they could be bought cheap the store men sold them cheap, and the people took them in preference to other favorites. The wholesale quotation was \$3 per dozen for the best, and from that down; on the abilities of the interested parties depended the price. The best teas are now \$6. Sweet peas are in full swing and find ready sale at from 50 cents to \$1.25 per hundred. Few growers seem to know how to handle this flower. Some leave it on until the color is gone, others cut the sprays with only one blossom open; in many cases it is cut and kept too long before being sent, and the most common and glaring fault is to see the flowers bunched tightly and without foliage. Sweet peas should be handled much the same as violets, they should be bunched nicely with as long stems as possible and always with enough of their own foliage to make the bunch look as large again. If possible they should be placed in water in a cool place for an hour before shipping and then should reach the market in the shortest possible time. To sell well sweet peas must be bright in color, must be sweet, and bunched attractively. It seems such a pity that growers should produce flowers that are all that can be desired, and from carelessness in cutting, bunching, packing and shipping lose 25 to 50% of what they might derive by more intelligent methods.

The meeting of the Horticultural Society was slimly attended, and not much business of importance was transacted. The hall is now so near completion that arrangements are being made to fit up the library and secretary's office, and possession will be given in about 60 days. Mr. Wm. Tricker's paper on "Aquatic plants and water gardening" was very interesting and instructive, and showed the possibilities of this class of plants. A water lily society was hinted at by the essayist as a probability in the near future. The Bee Association will have charge of the May meeting, and an essay on the rose by Dr. Huey, a prominent rose amateur, is down for June.

John Welch Young is to remove from his present location, and is erecting a house on his new property a few blocks from his present location. It is to be 200x22, and other modern structures are to follow.

Myers & Samtman are also putting up one 168x20, and Edwin Lonsdale is adding a 200x22 structure to his plant, to be largely occupied by Beauties in solid beds.

K.

Cleveland.

Over a week of midsummer heat is what we have had to endure lately. Not a gentle sliding from the lap of spring into the embrace of summer, but a mad leap out of winter's arms into a degree of torridity that might have tried the endurance of the three Hebrew worthies who incurred a royal potentate's displeasure. Easter week we shook and shivered, cut off by the rigors of winter from a fair opportunity to do a little profitable business. Now we fry under a sun that brings flowers to maturity before their time, makes ice-boxes of little avail, brings quality to a midsummer level, and prices—ye gods! Don't talk of prices. There are none. They are gone, evaporated, disappeared. During the past week there has not been a florist's store in the city of Cleveland into which the public could not go and get carnations for 10 cents a dozen and roses for

25 cents. Not poor stock either, but fair average goods, that should normally at this time of year bring at least double the money. It is useless to speculate concerning causes, for they are perfectly evident—a combination of weather and human cussedness. Combine these two with the perishability of flowers and you have an aggregation before which prices apparently cannot stand. All that can be done is to wait for cooler weather to tone things up again. This sudden glut will likely be succeeded by a period of shortage, as we are certainly now getting stuff that normally would be spread over another week's time at least. In the meantime Greece, Israel and the grocery store men rejoice and are glad, while the other fellows are correspondingly melancholy. Dutch bulb stuff is on its last legs, and wavering and uncertain legs they are. The last lots of flat grown stock are being cut. With most growers indeed they are about gone. Hyacinths in the open ground are in full bloom and a good many tulips are showing color.

At the last club meeting a good deal of business was transacted, most of it relating to the holding of a flower show in connection with the national meeting; there was also considerable discussion concerning the chrysanthemum show. A committee was appointed to outline a plan to be submitted at the next meeting, April 28, when both projects will probably take definite form. As the national executive committee convenes on the same day there will be a good opportunity for the local men to meet members of that body. There will be a banquet in honor of the committee at the Hollenden Wednesday evening, April 29, for which tickets can be obtained from Mrs. Ella Grant Wilson.

Mr. James Wilson, of the Williams-Wilson Co., is to be married the latter part of the month and congratulations are now in order.

A.

Buffalo.

Like other localities we have experienced a great change of weather. Winter jumped with one leap into summer. If this had only occurred a week earlier how happy would be our recollections of Easter. That's forgotten now and all plant men are rushed with work, spreading out and shifting; rushed with work if not with sales, but they will come in time; people who have a garden have begun to "make it." The first thing when they "make garden" is to throw the empty tin cans over the fence into their neighbor's garden, and then purchase a 5 cent packet of sweet peas, and if they know anything plant some pansies, but with all the talk and good advice to our patrons the great majority of people put off the pansies till it is time for coleus. Violets are getting small and so is the demand for them. There are plenty of A1 carnations coming in and now selling at popular prices, 25 cents per dozen. The local supply of roses is much larger than it has been. Outside daffies and tulips are not quite here yet, and those grown inside meet with a ready sale. This week has been lively with golden weddings, silver weddings and weddings of the ordinary kind, or first attempts, all of which has used up a good many flowers and lilies that have been skillfully kept since Easter.

I have heard of no stranger in town this week and have not heard that Daniel B. Long has been out of town.

Mrs. Thomas Clayton, the wife of our long established and respected florist of

Richmond avenue, died last week; she will be sadly missed by a husband and two sons.

About this time of year we begin to miss a face for years so familiar in almost all the florist's places. It was that of poor "Baltimore," who died in January. He began years ago to supply some of us with moss and ferns, but by degrees established a bulb farm. He had something to sell to us almost the whole year, and his wagon loads of spring flowers were always in demand. Poor Fleishman, everybody liked him, but he was seldom called Mr. Fleishman. He was Baltimore to everybody, because he had the colored or Baltimore dialect. W. S.

Chicago.

The trade has passed through a week of demoralization caused by the unseasonable heat, and is now reviving a little. During the warm week stock arrived in such bad condition, when only a few hours cut, as to cause much dissatisfaction, in spite of the most careful selection and packing. Quality was poor with everything, and prices were most erratic. This week, however, we see an improvement. With cool weather quality has improved, roses especially showing the difference. The quantity coming in has very materially lessened. First-class Beauties are rather short, and other roses of really high grade are none too plentiful, though there is plenty of second-class grades. Beauties are about the same in price as last week; other roses \$3 to \$4. Carnations are plentiful at 75 cents to \$1.25; and lower in big lots. A great many flowers are going out of town.

Of outdoor flowers irises from southern Illinois are now seen—a pale lilac variety sells for 35 cents a dozen, deep purple for 25 cents. Lilac is not coming in equal to demand now; the heat rushed it all out at once in the southern part of the state, and it is not yet in bloom in this vicinity. Arbutus has been seen, but only in very small quantity; it seems late this spring. Poet's narcissus is in, and there is plenty of other outdoor bulbous stock. Sweet peas vary from 50 cents to \$1 a hundred. Perhaps the only scarce item in the market is smilax, which is short and in good demand at \$15 to \$18 per hundred.

The Florist Club met April 23, but nothing beyond routine business was transacted.

The preliminary premium list of the Horticultural Society of Chicago for the exhibition of 1896, to be held Nov. 10 to 14, has been issued. There are 190 classes as against 157 classes last year. An addition to the rules requires that where judging is by scale the entry must score 85 points to be entitled to first premium, 75 points for second and 65 points for third. The premiums in the plant classes are larger in amount and also more numerous. For the "best display of stove, decorative and greenhouse plants arranged for effect," premiums of \$75, \$60 and \$45 are offered, to be judged by the following scale: Quality of plants 35 points, arrangement 35 points, quantity 30 points. The carnation premiums cover all leading varieties by name. This plan has been so satisfactory with the carnations that the society has now offered premiums for chrysanthemums in 13 classes by name. Prizes of \$25, \$15 and \$10 are offered for 12 blooms of the new chrysanthemum Mrs. W. C. Egan. For table decoration the prizes have been increased to \$100, \$75 and \$50, the entries to be in position on the second

day of the show, same to be kept in condition during the remainder of the exhibition, to be judged each day and the premiums to be awarded on the last day to the ones scoring the highest average number of points during the four days.

Toronto.

The weather during last week was more suitable for July than the beginning of April. Last Monday the grass was scarcely visible; this Monday (20th) the lawn mowers are at work, and the early chestnut trees are in leaf. The thermometer in its saltatory exercises reached the height of 80 degrees.

The paper read by Mr. C. Ross on "Shade trees for street planting" at the last meeting of the Horticultural Society was a first-rate one and thoroughly practical, just the kind of thing that should be circulated among the citizens in order to teach them the why and the wherefore of many things they see and don't understand, but often complain about in the daily papers. The president promised to get it published in all those papers, but I have not seen it yet.

Mr. E. Worden, formerly of England, later with Mr. J. Cotterill of Deer Park, and latterly foreman and rose grower for Messrs. Nanz & Neuner of Louisville, Ky., is taking a rest to recruit his health in this city. He has not made up his mind yet whether he will stay here or return to the "other side."

Charlie Tidy reports trade very good since Easter. The warm weather has made cut flowers plentiful and prices slightly lower. The demand last week during the Horse Show was very good. Mr. Tidy had a big wedding on to-day (Dalton McCarthy's son); the bride was to be fixed up with four dozen Bride roses and a hundred lily of the valley, the bridesmaids with Meteor roses and mignonne.

To-night (21st) the gardeners and florists at their regular meeting discuss "Carnations." Mr. Worden mentioned above has promised a paper, and all the principal growers will bring specimens.

Mr. A. Dimmock, from Sander & Co., St. Albans, has just paid us a visit, his first appearance in Canada. We hope he will call every year now the ice is broken. E.

St. Louis.

The early part of the past week has been marked by the worst glut of many seasons, the best of stock being hard to dispose of, and the prospects are good for the glut to remain over this week. Stock of any kind can be bought at buyer's price, and the fakir is having his picnic just now. They are selling fine stock on the street at any price they can get, 10 cents per dozen for carnations and 25 cents per dozen for roses. They can well do it; they buy them from the wholesaler for 50 cents and \$1 per 100, and carnations for 50 cents per 100. The retailer can buy the stock for the same price, but he can't dispose of it in his store as the fakir can on the street. Not only roses and carnations are selling for almost nothing but every other flower, sweet peas at 25 cents per 100, valley and tulips \$1 and \$2; the fact is bulb stock is dead. Harrisii sell from \$4 to \$6. The only scarce articles in the market just now are ferns, and smilax will be in great demand.

Trees planting has been very brisk this spring. Mr. C. C. Sanders reports that never before has he been so busy as this

spring in planting trees, shrubs and evergreens, others in the same line report about the same. In the plant shipping trade C. Young & Sons Co. report large orders coming in and from the looks of things now will do more in this line than ever before.

The floral decorations at the Pierce wedding were very fine and fully up to the famous Busch wedding as far as floral work went. At the church 1,000 Harrisii were used, and plants around the inside of the church; no decorations of plants could be made on or around the altar, the rule of this church being that any and all decorations made around the altar must remain the property of the church and can not be taken away. The bride's and bridesmaid's bouquets were of white lilacs and valley. At the residence every room was decorated with plants and cut flowers; this was the work of C. Young & Sons Co.

Joe Rolker of A. Rolker & Sons, New York, was a visitor last week on his way east.

Tom Peterson, late with R. F. Tesson, has branched out on his own hook and has opened up a floral establishment at the corner Hunt and Easton avenues. He will grow plants and cut flowers for the trade. Tom is a jolly good fellow and well liked by his brother florists, who wish him success in his new venture.

The Bowling club had its rolling Monday, but very few were able to attend owing to spring planting, and all hands being too busy only seven members put in an appearance and rolled some good games. The high man of the night was Beneke, 581 in three games and highest single games 218, Al Baur was second with 506 in three games, Fillmore was second on highest score, 206. Next Monday night the club will have a meeting; very important matters will come before them, and the president requests every member to be present. J. J. B.

Rochester, N. Y.

Since my last report business has decreased materially, and prices of all cut flowers have taken a decided drop. The unusual and continuous warm weather has brought out a great many roses, carnations and violets, even out door narcissus and hyacinths are in the market, so there is no scarcity in any line and the quality is good also, but the stuff is entirely too plentiful, and much of it finds its way into the ash barrel, reminding us of midsummer abundance. A few receptions, dinners and weddings helped to dispose of part of the surplus stock, but none of these called for very elaborate decorations; in former years wedding and other parties shortly after Easter were frequent and numerous, but this season very few of them have occurred so far, and most retailers are disgusted with the slow business. The violets from cold frames are very good now and plentiful, California seems to do excellently in that way at Geo. J. Keller's, who is perhaps the only one in town who tried it on a large scale. The flowers are fully as large in the frames as those which were picked in the houses during the winter, and are of a darker and deeper color; compared with the old Czar or the Victoria Regina, the California is preferable on account of its stiffer and longer stems, and because of its facing upward, thus, when bunched, presenting a full view of every individual flower, while in the Russian varieties the bend in the neck throws the face of the flower on the side, and when bunched many of them show the large green calyx

and the exterior instead of the interior of the blossom is seen from above. Altogether I think it is the best single violet for the flower market yet introduced, though in rich ground the foliage and growth is rather rank and weedy in appearance.

The packing season in our nurseries is in full blast yet, and all are very busy digging up the stock for the numerous orders. The hot summer weather is starting all trees and shrubs into growth, and extra help is put on the regular force to get them out of the ground before it is too late. Most all of the firms are well satisfied with their sales this spring; the largest establishment in the city, doing business all over the United States for more than fifty years, has never before had such a liberal demand for ornamental stock as this season. Many of the larger orders are for park planting in different parts of the Union, and are principally for rare and choice stock. Their spacious and well equipped packing sheds, although greatly enlarged during the past winter in anticipation of the rush, were found to be yet too small for the immense quantity of stuff to be packed, and additional temporary sheds had to be erected to accommodate all the packers.

J. B. K.

Worcester, Mass.

Well, we have had a very hot time of it this last week, a regular scorcher in fact, with the thermometer hovering uncomfortably near the nineties and much humidity. It has had a depressing effect on trade, people being too listless to think much of festivity and consequently flowers, and making the blooms open so fast that nearly all kinds of flowers are too plentiful. Bulbous stuff and flowering shrubs outside are very much advanced, and should we get a cold snap, which is more than probable in this delightful New England climate, much damage will be done.

Violets are the only item that we could use more of; outside violets are not in bloom yet and those inside are small and rather pale. Prices are showing a tendency to drop.

The horticultural show April 16 brought out a nice showing of spring flowers and was well attended, the feature of the show was the magnificent roses shown by H. F. A. Lange. The following first premiums were awarded: Cut flowers, H. F. A. Lange; tulips, Edward Hall; narcissus, H. A. Jones; hyacinths, H. F. A. Lange; geraniums, A. A. Hixon; basket, F. B. Madaus.

A. H. L.

Pittsburg.

The extremely hot weather affected every one so that another week of continued dullness to the trade is the result. It has been a very trying time with the growers too, mainly detrimental to bulbous stock and making roses flabby. Those who are growing bedding stuff are beginning to make quite a display in our markets; trade in this department has been very fair, and the quality of the stock brought in has been good.

Mr. John Murchi of Sharon, Pa., visited us in the early part of the week, and S. S. Skidelsky, with M. Rice & Co., Philadelphia, was also here.

REGIA.

Des Moines, Iowa.

There has been a fair demand for all kinds of florists' stock since last report, and prices are about the same. The supply is good and up to demand.

The R. A. Rollinson failure was not a florist failure, he having gone out of the florist business several years ago.

The State Executive Council has engaged the services of a life insurance agent to plant the State House grounds with herbaceous plants.

J. T. D. F.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By a first-class rose grower, 30 years' experience; single. Address O. K. care J. C. Vaughan, Western Springs, Ill.

SITUATION WANTED—By German 19 years old; 4 years in this country, 2½ years' experience. Address H. A. 54 Maggee St., Cambridgeport, Mass.

SITUATION WANTED—Man, single, temperate, 5 years' experience with flowers, neighborhood of Phila. WALTER COOPER, W. Grove, Chester Co., Pa.

SITUATION WANTED—By a first-class competent man as florist and gardener; private place in country. Address M. P. care Am. Florist.

SITUATION WANTED—By young man as rose and carnation grower at present in California; good eastern experience; free May 10. Apply GROWER, care American Florist, Chicago.

SITUATION WANTED—Store work; thoroughly competent man; many years' experience. First-class designer. Low wages. Address FLORIST, 62½ Forest Ave., E. Walnut Hills, Cincinnati, O.

SITUATION WANTED—By a first-class grower of cut flowers; single; 20 years' experience; good worker. The best of references as all round man. E. KNOBE, care Gude Bros., F St., Washington, D. C.

SITUATION WANTED—As foreman, where first quality roses are wanted, and where rose growing is a specialty. 8 years' experience; American; single. First-class references. Address SPECIALIST, care American Florist, Chicago.

SITUATION WANTED—As manager in commercial place; 18 years' experience in roses, carnations, mums and general stock. Good designer; married; age 45. Good in working up trade. Good references. FLORIST, 159 Lexington Ave., Indianapolis, Ind.

SITUATION WANTED—As foreman by a practical grower of palms, ferns, mums, roses, carnations, violets, forcing of bulbs; 24 years' experience; single. References O. K. Only reliable parties noticed. Address FLORIST, Collingdale, Delaware Co., Pa.

SITUATION WANTED—By a gardener and florist, German, 27, married, without children, on private place or horticultural establishment; thoroughly experienced in raising any kind of cut flowers, plants, greenhouse stock, vegetables, etc.; good references. CHAS. REINERT, 223 Washington St., Hoboken, N. J.

SITUATION WANTED—By florist; age 25; 11 years experience in cut flowers and plants for wholesale and retail trade. Good propagator and design worker. A place where the grower is expected to raise the best possible stock preferred. References. State wages given. Address L. G. B. care American Florist, Chicago.

WANTED—Price lists of plants, seed, florists' material and nursery stock. F. R. MIEHKE, 1613 South 11th St., Tacoma, Wash.

WANTED—One good young man for work around greenhouses. Address A. PAH'D, Crown Hill Cemetery, Indianapolis, Ind.

WANTED—At once, intelligent up-to-date grower of roses, carnations, violets, mums, palms, ferns. FRANK B. SMITH, Box 181, Danville, Ill.

WANTED—A young reliable florist, well posted on ferns and palms; must come well recommended. H. F. HATLE, 548 W. Madison St., Chicago.

WANTED—To lease for a term of years greenhouses with some land attached; must be in or near Chicago. Address CLOUSTON, care Am. Florist.

FOR SALE—Best florist store in Chicago—cheap. Address M. H. care American Florist.

FOR SALE—Three greenhouses with stock and all belonging to it, very cheap. Address W. S. P. care American Florist.

FOR SALE—Two greenhouses, one 9x100, one 16x100, hot water; 3 acres fine land inside city limits; well stocked for spring sales; growing town of 6000, with four towns around and no greenhouses. NICK GREVELING, Sparta, Wis.

FOR LEASE AND STOCK FOR SALE—Seven Greenhouses, 12,000 feet of glass, in good shape in one of the best residence sections in Chicago; value can be reduced by sales to less than \$3,000 or can be sold, as it is worth about \$4,000. Address "SOUTH SIDE," care American Florist.

LILY BULBS FROM JAPAN.

Imported Direct from the Japanese Bulb Farms and offered at Import Prices.

These are from same reliable growers heretofore, and can be thoroughly depended on. They are repacked on arrival and every bulb guaranteed sound. I offer these with every confidence and know they will give good satisfaction. Note especially my very low prices this year for repacked and guaranteed bulbs.

	Per 100
Lilium auratum, 7 to 9 inches	\$4 00
" " 9 to 11 "	6 00
" speciosum rubrum, 7 to 9 "	6 00
" " roseum, 7 to 9 "	6 25
" " album, 7 to 9 "	8 50

CANNAS, GLADIOLI, DAHLIAS, PÆONIES, BEGONIAS, GLONINIAS, IRISES, MADEIRA VINES, AND OTHER SPRING BULBS.

Fine assortment at low rates.

Send for Price List.

G. C. WATSON,

43 N. 10th St., PHILADELPHIA, PA.

Bulbous Begonias.

LAING'S STRAIN. In separate colors.

Lilium Longiflorum, Tuberoses, Spiræas, etc. Now on hand.

Ask for prices.

HULSEBOSCH BROS., Englewood, N. J.
Mention American Florist.

Cacti, Orchids, Bulbs.

Special Introduction Offers, prepaid.

ORCHIDS—5, good for cut flowers, \$2.50; 10 for \$4.00.
CACTI—20 for \$1.50; 30, \$3.00; 40, \$5.00; all different.
BULBS—For fall delivery. List on application. Remit stamps or Express Money Order.

J. A. McDOWELL & CO., City of Mexico.

SMILAX PLANTS.

Nice, thrifty, from pots, \$1.50 per 100; \$6.75 for 500; \$12.00 per 1000.

WISCONSIN FLOWER EXCHANGE,
Box 87. MILWAUKEE, WIS.

FOR SALE. EVERGREEN LODGE, Clarksville, Tenn.

On May 22nd, 1896, we will sell at public auction, if not sold privately before that date, this valuable property. This is the finest property of the kind in the South, and a large trade is already established throughout the Southern States. The property consists of eight acres of beautiful grounds, excellent improvements, six first-class greenhouses, well supplied with all modern equipments, one chrysanthemum house. These greenhouses are not excelled by any to be found in the South or elsewhere.

A fine opportunity is here offered to any one wishing to engage in the floral business. Correspondence solicited. Terms one-fourth cash, balance in six, twelve and eighteen months, secured by a lien.

CLARKSVILLE, TENNESSEE.

PAYNE & SAVAGE, Trustees.

Baltimore.

The last meeting of the club was well worth attending if for nothing else than the pleasure and profit to be derived from listening to Mr. N. F. Flitton's exceedingly well written essay on "Shade Trees." Though short it was in every way commendable, and was a synopsis of the author's very careful observations and long experience.

The executive committee was appointed consisting of Mr. Chas. Hamilton, chairman, and Messrs. C. M. Wagner, Wm. Cristie, Hy. Ekas and Wm. McRoberts, Jr., members.

The date of holding the annual show was also decided after much and careful consideration. It will be held the third week of November in the Music Hall. This is the last step in preparing for the show, and so far there has been no slight mistake to mar the prospect of a perfectly successful show. MACK.

Cincinnati.

The general run of business has been slow the past week. The weather has been very warm, the thermometer recorded 83° in the shade on the 17th and 18th inst. We have had a very dry spring and the growers are anxious to see some rain, as they are about getting ready for spring planting.

Market last Saturday was exceptionally dull for this time of the year. Every one is looking forward for a good spring trade. Bedding stuff all around looks well, especially roses.

Mr. John Raising, one of the oldest pottery men of this city has connected himself with the Cambridge Tile Mfg. Co. of Covington, Ky.

Mr. Thomas Hardesty was married April 21 to a charming young lady of Newport, Ky. H. SCHWARZ.

Sharon, Pa.

Mr. M. I. O'Brien reports an exceedingly good trade all along the line, the volume of business transacted during Easter week having surpassed that of last year's by at least 25%. Between the demand for cut flowers and the large funeral designs he put up on Easter Saturday, his supply of flowers, prepared though he was, gave out completely. Among the numerous other designs, Mr. O'Brien made a gates ajar and pillow combined five feet high and three and one-half wide. A casket bouquet 3½ feet long and 2 feet wide, composed of the choicest flowers, such as lily of the valley, orchids, etc., was another piece that attracted a good deal of attention. These were the finest and costliest designs ever made in Sharon. Mr. O'Brien intends building a new wind mill, his present water supply being utterly inadequate for his plant. Homo.

Association Flora,

BOSKOOP, HOLLAND.

CLEMATIS, Large-flowering sorts, \$15.00 per 100.

Rhododendrons in sorts, **Pæonia**, **Bleeding Heart**, **Spiræa japonica**, **Azalea**, **Magnolia**, **Lilacs** and **Shrubs**.

H. P. ROSES in sorts.

P. OUWERKERK, 1123 Summit Ave.,

Catalogue on Application, **JERSEY CITY, N. J.**

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

AT AUCTION, a \$10,000 Collection of

ORCHIDS AND OTHER VALUABLE PLANTS, valued by **PITCHER & MANDA**, and from which \$1,750 of cut flowers were produced this Easter. This is a rare opportunity as the Estate must be settled, and the plants will be sold without reserve, by

WILLIAM ELLIOTT & SONS,

at the Greenhouses, **NEWTOWN, LONG ISLAND,**

Wednesday, April 29th, 1896,

AT 11 O'CLOCK SHARP.

TAKE LONG ISLAND R. R., NORTH SHORE DIVISION. Trains leave foot E. 34th St., 8:30 a. m., 9:20 a. m., 9:50 a. m., 10:20 a. m., 10:50 a. m., 11:20 a. m., arriving at Newtown in 15 minutes, or by Trolley.

PALM SEEDS

On hand in splendid condition.

	Per 100	Per 1000	Per 5000
<i>Areca lutescens</i>	\$1.50	\$10.00	\$47.50
<i>Areca rubra</i>	1.50	10.00	47.50
<i>Geonoma gracilis</i>	1.75	12.00	55.00
<i>Geonoma Schottiana</i> . .	1.75	12.50	60.00

Non-germinating seeds will be replaced.
Our Palm Growers' Guide free on application.

Chas. Schwake, 404 E. 34th St., New York.

CLEMATIS

Jackmanni, and all large flowering varieties, \$17 per 100

Rhododendrons, Snowball, H. P. Roses, Azaleas, Tree Roses, Pæonia Chinensis, Tree Pæonia, Double Flowering Crataegus vars., Lilacs, Hydrangea, Magnolia with buds, Etc., Etc.

ASK FOR PRICES.

L. C. BOBBINK, RUTHERFORD, N. J.
Branch of the Horticultural Co., Boskoop, Holland.

CINERARIA maxima grandiflora, finest large flowering	Packet \$0.50
PRIMULA Auricula, finest mixed, from stage flowers	.50
<i>Acaulia</i> (garden primrose), mixed vars.	.25
<i>Polyanthus</i> , finest mixed, named sorts	.25
" " gold edged varieties, extra stage flowers	.25
GLADIOLUS Bulbs, all distinct varieties	.50

CHARLES LONG,
277 Jefferson Ave., **ROCHESTER, N. Y.**

Plant Auction.

SALES EVERY TUESDAY AND FRIDAY THROUGHOUT THE SEASON.

A. & F. RÖLKER, Auctioneers.
106 Liberty Street, **NEW YORK.**

NEW CALIFORNIA CHRYSANTHEMUM GOVERNOR BUDD

NOW READY. The Queen is justly pronounced the queen amongst mums. Governor Budd is identical in shape, size, and fine finish of blooms: in growth it is also very similar. If anything more vigorous and with stronger flower stems. It is only in color it differs from its parent The Queen, being of a lovely shade of lemon yellow. Certificate by the California State Floral Society. 50c each; \$5 per dozen. Cash with order.
J. A. CARBONE, West Berkeley, Cal.

CLEMATIS.

Two years, all large flowering, choice named, leading kinds	Doz. 100 \$2.50 \$30.00
Strong, heavy plants	35c each, 4.00 30.00
H. P. Roses, 2 years, 4-inch pots	1.50 10.00
Pæonies, named in 10 choice sorts	1.25 8.00
Daisies, Dbl. Eng. Snowcrest, Snowflake	.50 1.00

F. A. BALLER, BLOOMINGTON, ILL.

NEW BISMARCK APPLES.

1 and 2 years old.

CH. KOEHLER, Five Points Nursery,
Oxford Church P. O., Phila., Pa.

JUST IN TIME

To Render the Most Acceptable Service for **DECORATION DAY.**

I am prepared to book your orders for prompt shipment on and after May 10, for **GRANDIFLORA CAPE JASMINE BUDS.**

PRICES AS FOLLOWS:

1st quality, long stems	\$1.00 per 100
2nd "	.75 per 100
3rd "	.60 per 100

In baskets by express, purchaser to pay charges. Terms, invariably cash. Special terms in large quantities. No shipments on commission.

Address **J. M. WEEMS,**
P. O. Box 237, **ALVIN, TEXAS.**

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address **GEORGE WITTBOLD,**
1708 N. Halsted St., CHICAGO.

PANSIES.

-- THE JENNINGS STRAIN --

of finest American grown Pansies from cold frames, fine stocky plants grown 5 inches apart; will be in bud and bloom April 1st. Stock the finest.

Cash with	Price per	100.....	\$ 2 00
order.	" "	500.....	7 50
	" "	1000.....	15 00

E. B. JENNINGS, L. B. 254, Southport, Conn.,
—Grower of the finest strain of Pansies.

NOVELTIES FOR THE TRADE.

New *Asparagus Sprengeri* 30c. New *Spiraea Anthony Waterer* 25c. New Climbing Meteor Rose 30c. New Golden Rambler, Yellow Souper, New Crimson Rambler \$5 per 100. New Justela, New Double Rudbeckia, New Cammas, Carex Japonica, Bougainvillea, Gladioli, Dbl. New Life Geranium, Geranium Agnes Kelway, best pink at low prices. Send for Catalogue of Novelties and Trade Bulbs at low prices. **A. BLANC & CO.,** Philadelphia, Pa. very low prices. 1st free.

VIOLETS.

CZAR AND MARIE LOUISE, perfectly healthy—never had any disease on my stock.

Strong Rooted plants 60 cts. per 100, or for 500 and upwards, 50 cts. per 100.

E. McNALLY, Anchorage, Ky.

LARGE GERMAN PANSIES.

From cold frames, in bud and bloom. No better to be found. Per hundred, \$2.00. Stock limited.

A. J. SWANCER, SHILOH, OHIO.

No "Samples."

Money Order Office, **EDWIN LONSDALE,**
Station H, Phila.
Wyndmoor, Chestnut Hill, Phila.

V. A. VANICEK'S NURSERY, Newport, R. I.

CHICAGO.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.
Subscriptions accepted only from those
in the trade.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
wares pertaining to those lines ONLY. Please to
remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure
insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

E. M. H.—The double calla sent, though
abnormal, is not by any means uncom-
mon, though the triple appearance of
the spathe, of which there is an indica-
tion in your specimen, is rarer.

The reference lists of roses, chrysanthemums
and carnations in the new edition of
our directory and reference book are
the most complete ever published, and
the reference list of cannas is the first of
the kind. Their value to the trade can
hardly be estimated.

The Mexican Plant Co., of Maravatio,
Mexico, send us bulbs of *Sprekelia for-
mosissima* in flower. The flowers were
so dried when received that we could not
judge of their beauty. The senders state
that they grow them the same as hyacinths,
in glasses, potted or in open
ground.

THE DUTCHESS COUNTY Horticultural
Society has issued a schedule of premiums
for their second annual exhibition, to be
held at Poughkeepsie, N. Y., November
11-13. The premiums offered amount to
\$800, and include a variety of classes.
For particulars address W. G. Saltford,
Poughkeepsie, N. Y. or W. G. Gomersall,
Fishkill-on-Hudson, N. Y.

THE PROCEEDINGS of the American Car-
nation Society, fifth annual meeting, re-
cently received at this office, gives a full
and complete report of all the business
transacted at their New York meeting.
The society now has a membership of 93,
and is in a flourishing condition in every
way. Copies of this report may be
obtained from Mr. Albert M. Herr, Sec-
retary, Lancaster, Pa.

WISCONSIN FLOWER EXCHANGE, CUT FLOWERS, Palms, Ferns and Growers' Stock.

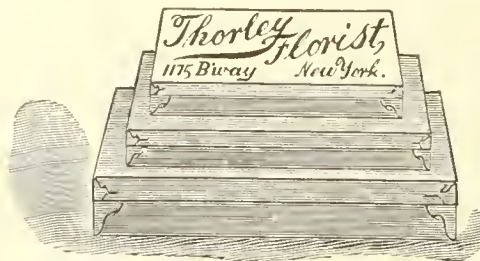
FLORAL ARRANGEMENTS, STORAGE
AND COMMISSION.

Box 87. MILWAUKEE, WIS.
Mention this paper.

MILLANG & WINES, WHOLESALE FLORISTS,

501 Sixth Avenue,
CORNER 30TH ST., NEW YORK.
Consignments Solicited.

When writing to any of the adver-
tisers on this page please mention the
American Florist.



The boxes as they appear when set up for use.

We make them in a sufficient number of sizes, including for violets, to meet all necessary requirements.

THE NATIONAL FOLDING BOX & PAPER CO.,

NEW YORK SALESROOM:
132 & 134 Franklin Street.

315--325 Congress Ave., NEW HAVEN, CONN.



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WIRE DESIGNS.
1402 PINE STREET.

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C. A. KUEHN,

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Wholesale Florist,

1122 PINE STREET,

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A complete line of Wire Designs.

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4TH AND WALNUT STREETS,
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The Boston Flower Market

is prepared to purchase, on order, and
ship Trade orders for Cut Flowers at
prices ruling in the market on day of
sale. TERMS STRICTLY CASH.

Address WM. J. KENNEDY, Mgr.,
Flower Market, Park St., BOSTON, MASS.
Long Distance Telephone "Haymarket 438."

DAN'L B. LONG, FLOWERS AT WHOLESALE.

Strictly Commission Business.
SUPPLIES, ETC.
LISTS FREE. BUFFALO, N. Y.

A. & F. RÖLKER, Down-town Wholesale Florists,

106 & 108 Liberty Street (Basement),

NEW YORK.

PLEASE mention the AMERICAN FLORIST
every time you write to an advertiser.

"The National"

Folding Flower Boxes are the best
and most convenient ever put upon
the market. They are made from
board, manufactured especially for
these goods, and made so as to resist
moisture, thereby keeping the flow-
ers fresh, and the box holding its
shape.

THE NEW YORK CUT FLOWER CO.,

119 and 121 W. 23rd St., and
112 and 114 W. 24th Street,

IS NOW

OPEN FOR BUSINESS.

The Largest Dealers in

CUT FLOWERS IN THE WORLD.

Handling flowers of all kinds in quantity
we are in a position to fill shipping orders
promptly. We shall give careful attention
to this branch of the business, and solicit
your patronage.

WHOLESALE FLORISTS

JOEBERS IN
FLORISTS'
SUPPLIES,
FLORISTS'
VASES.

METS,
BRIDES,
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.

84 Hawley Street,
BOSTON, MASS.

HORTICULTURAL AUCTIONEERS.

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WELCH BROS., Wholesale Florists,

NO. 2 BEACON STREET,

near Tremont St. BOSTON, MASS.

Asparagus Plumosus Nanus.

Cut Strings, 8 to 10 feet long,

50 CENTS.

W. H. ELLIOTT, Brighton, Mass.

SAMUEL S. PENNOCK, Wholesale Florist

1612 & 1614 BARKER STREET,
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WHOLESALE FLORIST

68 Lake Street, CHICAGO.

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SEEDS, BULBS AND ALL
FLORISTS' SUPPLIES

KENNICOTT BROS. CO.
Wholesale Cut Flowers
and FLORISTS' SUPPLIES,
88 Wabash Avenue, CHICAGO.

Winter & Glover,
Successors to T. J. CORBREY & CO.
Wholesale Commission Florists
59 Wabash Ave., CHICAGO.

If you want First-Class Flowers, properly packed and delivered on time, send us your orders and you will get what you want.

We are now prepared to furnish Florists' Wire Designs and a full line of Florists' Supplies.
WRITE US FOR OUR ILLUSTRATED CATALOGUE.

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Successors to J. B. DEAMUD & CO.,
CROWERS and
WHOLESALE
DEALERS in CUT FLOWERS,
88 Wabash Avenue,
CHICAGO.
HEADQUARTERS FOR AMERICAN BEAUTIES.

Reinberg Bros.
WHOLESALE CUT FLOWERS,
51 WABASH AVENUE,
CHICAGO.
Telephone Main 4937.

Our Roses best them all, in quality.
Headquarters for fine American Beauties.

W. E. LYNCH,
WHOLESALE CUT FLOWERS,
Wire Designs a Specialty.
59 WABASH AVENUE,
CHICAGO.

ROGERS PARK FLORAL CO.,
Wholesale Growers of
CUT FLOWERS,
41 WABASH AVENUE,
CHICAGO.

We are prepared to fill your orders with first-class flowers. Give us a trial order.

A. G. Prince & Co.
WHOLESALE
COMMISSION FLORISTS,
41 Wabash Avenue,
CHICAGO.
Telephone Main 3208.
Comments solicited. Prompt attention to all orders

Removal Notice.

Owing to the great increase in our business, we have been obliged to move to larger quarters. We have secured ROOM 20, at 88 WABASH AVENUE, where we will be found after May 4th.
This will be of great advantage to our patrons, as there is plenty of light and room.

Respectfully,
A. G. PRINCE & CO.

Wholesale Markets.

Cut Flowers.

NEW YORK, April 22.	
Roses, Beauty	5.00@15.00
" Niphetos, Perle	1.00@2.00
" Cushn, Waterville, Meteor	1.00@3.00
" Bride, Bridesmaid, Meteor	1.00@4.00
" Testouts, Morgan	1.00@4.00
" Jacqs	3.00@8.00
" Hybrid perpetual	10.00@30.00
Carnations, ordinary	50@1.00
" fancy	1.00@2.00
Sweet peas	1.75@1.40
Violets	.25@.50
Valley	1.00@3.00
Harrisil	2.00@1.00
Mignonette	2.00@6.00
Lilac, per bunch	50@.75
Adiantum	75@1.00
Asparagus	50@1.00
Smilax	20.00@5.00

BOSTON, April 22.	
Roses, Gortier, Niphetos	1.00@2.00
" Perle, Mermet	2.00@3.00
" Bride, Bridesmaid, Meteor	3.00@6.00
" Jacqs	6.00@12.00
" Beauty	5.00@20.00
" Brunner	10.00@25.00
Carnations	75@1.50
" fancy	1.00@2.50
Violets	.75@1.50
Valley	2.00@3.00
Longitlorum, Callas	4.00@6.00
Mignonette	2.00@3.00
Adiantum	1.00
Smilax	17.00@25.00
Asparagus	50.00

PHILADELPHIA, April 22.	
Roses, Beauties long	25.00
" medium	8.00@25.00
" short	4.00@6.00
" Brunners	3.00@4.00
" Brides, Bridesmaid, La France etc.	6.00@8.00
" Katerin	3.00@6.00
" small teas	2.00@4.00
Carnations, fancy	2.50@3.00
" first quality	1.00@2.00
" seconds	.75@1.00
Violets	.75@1.00
Sweet peas	1.00@1.50
Harrisil	6.00@8.00
Daffodils	2.00@3.00
Smilax	15.00@0.01
Asparagus	55.00@30.00
Adiantum	1.00

CHICAGO, April 24.	
Roses, Beauties	8.00@16.00
" seconds	4.00@6.00
" Brides, Bridesmaid	3.00@4.00
" extra select	5.00
" Meteors	3.00@5.00
" Perle, Gortier	1.00@2.00
" Testout	4.00@8.00
" Morgan, Siebrecht	2.00@4.00
Carnations	75@1.25
" fancy	1.50@2.00
Antirrhinum	6.00@8.00
Harrisil	4.00
Longitlorum	5.00
Valley	3.00@4.00
Violets	.30@.75
Tulips daffodils	1.00@3.00
Nardissus, single	1.00@1.50
Hyacynth, Dutch	2.00@4.00
Mignonette	1.00@2.00
Sweet peas	.50@1.00
Marguerites	.50@1.00
Lilacs, per bunch 50c	15.00@18.00
Smilax	1.00
Adiantum	1.00

ST. LOUIS, April 22.	
Roses, Beauties, long	10.00@20.00
" short	4.00@5.00
" select stock	4.00@5.00
" general stock	1.00@2.00
Carnations, fancy	50@2.00
" ordinary	1.00
Valley	2.00@3.00
Harrisil	5.00@8.00
Callas	6.00@8.00
Romans	2.00
Tu lps	2.00@3.00
Sweet peas	1.00
Lilacs	2.00@3.00
Smilax	15.00@18.00

BUFFALO, Apr 1 23.	
Roses, Beauties	20.00@30.00
" Meteors	5.00@6.00
" Bridesmaid, Mermets, Bride	4.00@6.00
" Cushn, Perle	4.00@5.00
Callas	8.00@10.00
Harrisil	10.00@12.00
Carnations, fancy	1.50@2.00
" common, long	1.00@1.50
" short	.50@1.00
Tulips	3.00
Daffodils	3.00
Violets	.50@.75
Valley	4.00
Romans	2.00@3.00
Adiantum	1.00@1.25
Asparagus	50.00
Smilax	15.00@20.00

GEORGE A. SUTHERLAND,
Successor to PECK & SUTHERLAND,
Successors to WM. J. STEWART,
Cut Flowers & Florists' Supplies
WHOLESALE.
67 Bromfield St., BOSTON, MASS.
New England Agent for the GREAT ANTIPEST.

PLEASE mention the AMERICAN FLORIST
every time you write to an advertiser.

John I. Raynor,
49 WEST 28th STREET,
NEW YORK.

SPECIAL EXTRA STOCK OF
AM. BEAUTY, METEOR,
BRIDESMAID, BRIDE.

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FANCY GRADE.

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(Formerly with THEO. ROEHRs.)
Commission Dealer in Cut Flowers,
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53 West 30th St., NEW YORK CITY.

Our Seed Trade.

AMERICAN SEED TRADE ASSOCIATION.

S. E. BRIGGS, Pres.; T. W. WOOD, 1st Vice-Pres.; ALEX. RODGERS, 2nd Vice-Pres.; A. L. DON, 114 Chambers St., New York, Sec'y and Treas. The fourteenth annual meeting will be held at Niagara Falls, N. Y., June 9 to 11, 1896.

The Government Seed Purchase.

In a very lengthy statement appearing in public print last week, Secretary Morton of the Department of Agriculture states his side of this case in a four column article. A summary of his defense seems to be that the Department "resolved to buy the best seed" and that the Secretary, Representative Wadsworth and Senator Proctor, constituted a purchasing committee, and this committee did decide which firm offered the best and cheapest seed, notwithstanding that no public notice was given to the various bidders in the printed proposal or elsewhere, that any investigation would be made as to qualities of seeds sold by the various bidders.

We believe it was generally understood that the printed schedule fixed the germinating and purity standards required by the Department, and that the 10% deposit put up by the bidders was a guarantee "for the faithful performance of the contract." Such was the exact wording of the proposal and such certified check must be held to have been equivalent to a bond that these high standards of germination and purity would be met (so severe and unusual were they that one of the most reliable and prominent New York seed houses is reported to have declined to bid under such a standard). Why, it may be asked, was the opportunity not given to all bidders to provide against questions as to their reliability.

We publish below the letter and charges filed with the Secretary in this matter; they make very interesting reading, and the N. B. G. Co. claim to be able to prove all of them.

Washington, D. C., April 7, 1896.

HONORABLE J. STERLING MORTON, Secretary of Agriculture, Washington, D. C.

Dear Sir:—We send you under separate cover and by special messenger our charges preferred against your Department relative to the placing of seed contracts with Landreth & Sons, of Philadelphia, Pa., and May & Co. of St. Paul, Minn., all under date of March 31, 1896.

If you desire to confer with us or our representatives with reference to these charges, we would be glad to come to your Department at any time you may designate.

Until you are advised to the contrary, will you please address us at the Riggs House, Washington.

Will you do us the honor to acknowledge receipt of this letter and of the charges sent you under separate cover?

Respectfully yours,

NORTHUP, BRASLAN, GOODWIN Co.,
Per Charles P. Braslan, Gen. Mgr.

[To the above letter we received no reply or acknowledgment of charges from Honorable J. Sterling Morton.]

COPY OF THE CHARGES.

HONORABLE J. STERLING MORTON, Secretary of Agriculture, Washington, D. C.

Sir:—On the 31st of March, 1896, as Secretary of the Department of Agriculture, you entered into a written contract with David Landreth & Sons of Philadelphia, Pa., by the terms of which Landreth & Sons agreed to sell 10,125,000 packets of Vegetable Seeds, and you agreed to pay D. Landreth & Sons therefor the sum of \$70,000. Also on the same day you entered into a contract with L. L. May & Co. of St. Paul, Minn., by which said L. L. May & Co. agreed to sell to the Department, and you agreed to buy 1,000,000 pkts. of flower seeds, and you agreed to pay therefor the sum of \$5,000.

Prior thereto and at the same time these contracts were entered into, you had before you a proposition of the undersigned to sell and deliver to you 10,125,000 packets of vegetable seeds and 1,000,000 packets of flower seeds for the sum of \$64,000.

At that time you had in your possession a certified check drawn by O. G. Staples, upon the

Columbia National Bank, Washington, D. C., payable to your order, for the sum of \$8,000, deposited with you for the purpose of securing the absolute and faithful performance of the contract on the part of our corporation.

You also had at that time in your possession, telegrams from leading Banks, Bankers and Financial Institutions of Chicago, Minneapolis, Boston and Manitowoc, Wisconsin, stating that our corporation was solvent and able to fully carry out and perform its contracts.

Notwithstanding the fact that we stood before you in a business way and financially accredited; our seeds as good as any of our competitors; our bond for faithful performance in your possession, and our bid \$11,000 less than that of any other bidder, we did not get the contract but you awarded it to Landreth & Sons and May & Co.

We now respectfully but firmly charge the facts to be that we were not given the contract and the same was awarded to Landreth & Sons and May & Co., because of collusion, fraud, corruption, false statements and specially prepared reports, practiced, carried on and had and done in your Department.

To be more specific in the matter we charge the facts to be:

(1). That the real and only cause why we did not get the contract in question was because of the ill feeling you and your Assistant Secretary, Mr. Charles W. Dabney, entertained towards our corporation because of its alleged labors in connection with the passage of the joint resolution of the Senate and House of Representatives of the United States at this present session, directing you to buy and distribute seeds.

(2). That to carry out the purpose of your Department that we should not have the contract false and unfounded charges were made to you to the effect that the seeds which we had heretofore furnished the Department were not good, and lacked purity and germinating power.

(3). That reports were especially prepared and made to you and to Senator Proctor and Congressman Wadsworth to the effect that the seeds that we had furnished the Department had been tested and were found lacking in purity and germinating power.

(4). That you and your assistants stated that Landreth & Sons and May & Co. were willing that their names should appear on each packet of seeds and that we refused to permit our names to be printed on the packets of seeds that we furnished the Department, and that these statements were made to Senator Proctor and Congressman Wadsworth at the time that they were acting as a Committee to award the contract, all of which was false, as we stated orally and in writing to you that we would cut our bid \$10,000 if you would permit us to print our names on each packet.

(5). That the Assistant Secretary, Charles W. Dabney, was in collusion and connivance with the Brown Bag-Filling Machine Co. and insisted upon our corporation using these bag filling machines should the contract be awarded to us and because this we positively refused to do he did all in his power to defeat us.

(6). That the tabulated list of tests of our seeds which was furnished to you by Assistant Secretary Charles W. Dabney, and which showed that our seeds were of inferior quality, was false, and known by him to be false, either at the time it was presented by you or before the contracts in question were signed.

(7). That Gilbert H. Hicks, Seed Expert, of your Department made false statements to you and to Mr. Dabney with reference to the tests which he made of the seeds which we had heretofore furnished your Department.

(8). That the Committee consisting of Senator Proctor and Congressman Wadsworth were informed by officials of your Department that our seeds were inferior; that tests had been made and that they showed our seeds to be lacking in purity and germinating power; and that these statements so made to this Committee were false and untrue, and known to be so by the persons who made them, and were designedly made for the purpose of preventing us from getting the order.

(9). That the full correspondence between your Department and our Corporation together with our propositions and statements in writing relative thereto, were not shown to the Committee but mere statements and abstracts made therefrom.

(10). That the records in your Department show our proposal to furnish these seeds for \$64,000 being \$11,000 less than any other bidder; that we had given bond for the faithful performance of the contract; that our seeds were of the very best quality; that hundreds of letters on file in your Department bear testimony to the good quality of the seeds which we had been furnishing the Department for years; that your Chief Clerk and the Chief of your Seed Division know that the seeds we have been furnishing your Department were of the very best quality; that out of 150 to 160 distinct varieties which we furnished to the Department last year, the test showed that they possessed the highest degree of germinating power; that the table of germination required as set forth in your circular letter of March 18, 1896, was made from tests from our seeds, and although this is our record in your Department our proposal was unjustly, illegally and fraudulently rejected.

(11). That the reports and statements made to Senator Proctor and Congressman Wadsworth, and upon which they were influenced to act in the premises, were false and not made or pre-

pared from the official records in your Department.

(12). That a combination was formed in your Department consisting of Charles W. Dabney, Gilbert H. Hicks and Enos S. Harnden for the purpose of making false statements and records in your Department relative to the quality of our seeds.

(13). That although our communications, propositions and correspondence were delivered personally by our Mr. Braslan to Donald McCuaig, your chief clerk, and without disclosure on our part of their contents to any one, yet within a few hours when the papers were filed in your Department, the contents were disclosed and talked about in the streets and about the hotel lobbies among seedsmen.

(14). That you, as the head of this Department, at the time the bidders were before you and in your Department with their proposals to furnish seeds, advised our competitors of the contents of bids, and suggested and advised our competitors that they should refigure on the grounds that their proposals were over the amount of our bid.

(15). That the real reason you did not give us the contract was, as you stated, that we were supposed to have something to do with the procurement of the joint resolution directing you to purchase and distribute seeds. The reasons assigned that our seeds were inferior were false, unfounded, and the records of your Department so show.

(16). That your treatment of our proposal and rights in the premises all along have been of a similar character as that shown by copies of the telegraphic correspondence between us April 1 and to April 4 inclusive, hereto attached and marked "Exhibit A."

[PART OF EXHIBIT "A."]

TELEGRAMS.

NORTHUP, BRASLAN, GOODWIN Co.,
No. 57 Jefferson St., Chicago, Ill.,

For identification please place your firm's name on each package of charges. They will be thoroughly tested as to veracity, purity of purpose and power of growth. The Department hopes they may soon be formulated and given to the country. No one here seems scared up to date. J. STERLING MORTON, Sec'y.

OUR REPLY TO ABOVE TELEGRAM.

Chicago, Ill., April 4, '96.

HON. J. STERLING MORTON,

Secretary Agriculture, Washington, D. C.
It has always been and is now our intention to lay our case before you. We regret that as a Cabinet Officer of this great Government you should believe it was your duty to answer facetiously and sarcastically the earnest request of an American citizen to be heard before you, in order, as he at least thinks justice might be done him.

NORTHUP, BRASLAN, GOODWIN Co.

[To the above telegram we received no reply from Hon. J. Sterling Morton.]

(17). That the lists which accompanied the bids of Landreth & Sons and May & Co., and upon which the contracts were awarded, were not in accordance with either the circular letter of the Secretary of date March 18, 1896, or of the Act of Congress.

(18). That Gilbert H. Hicks, the alleged Seed Expert of the Department, is wholly incompetent and his opinions and reports are worthless and valueless.

(19). That after the contracts were awarded to Landreth & Sons and May & Co. changes were made in the varieties of seeds to be furnished in such a way and manner as that it will result to their benefit and advantage in a sum between \$7,000 to \$10,000, and that the Government will consequently lose a like amount.

(20). That many of the facts herein charged, the record in your Department, and the conduct of certain of the officials of your Department, were daily reported during the pendency of negotiations for the contract to your chief clerk, Donald McCuaig, by our general manager, Charles P. Braslan.

We assert that because of the amount of our bid, the standing of our corporation, and the character of our seeds, we were entitled to this contract.

We charge that it was not awarded to us because of the fraudulent processes, false reports, misleading statements and irregular conduct in your Department, and this we are and will be at any and all times ready to prove.

Respectfully submitted,

NORTHUP, BRASLAN, GOODWIN Co.,

Per Charles P. Braslan, Gen. Mgr.

[We received no acknowledgement of the above from Honorable J. Sterling Morton.]

BOSTON.—Mr. Robert Farquhar is confined to his home with inflammatory rheumatism.

NEW YORK.—Mr. E. V. Hallock and family started for California via Panama on April 20, expecting to be absent three or four months. Mr. F. T. Emerson is in town.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

**N. DAMES,**

OF THE FIRM

Van der Horst & Dames,

(Formerly G. VAN DER HORST & CO.)

BULB GROWERS,**Heemstede, Lisse, Holland,**

is on his round trip in America. To save time, we beg to address all letters up to May 1st, care of Knauth, Nachod & Kuhne, 13 William St., New York. Our motto is "Fine stuff makes cheap prices." Our dealings in America is increasing every year. Write at once for quotations. *Yours truly,* **N. DAMES,**
OF VAN DER HORST & DAMES.

VAN ZANTEN & CO.**HILLEGOM, near Haarlem, HOLLAND,**

Headquarters for High-grade Dutch Bulbs.
Finest and Largest Stock of best Forcing Bulbs. Prices very low for First Quality.

Ask for Wholesale Price List to

MR. S. ASCHER, 16 and 18 Exchange Place, NEW YORK.**NORTHRUP, BRASLAN, GOODWIN CO.**

Being **GROWERS** we are in a position to supply **Seeds of First-Class Quality** and to make **specialty low prices.** A trial will convince those who have not yet found this out.

NORTHRUP, BRASLAN, GOODWIN CO.

20 to 28 Hennepin Ave., MINNEAPOLIS, MINN.

55, 57 & 59 N. Jefferson St., CHICAGO.

VAN ZANTEN BROTHERS,
Hillegom, Holland.

Extra quality of **HIGH GRADE FORCING BULBS AT LOW PRICES.** We now book orders for **Azalea Indica, Palms, etc.** The largest collection of sundry bulbs and plants.

APPLY FOR WHOLESALE CATALOGUE.

P. VOS & CO., Sassenheim, Holland,
GROWERS OF
Hyacinths, Tulips, Crocuses, Narcissus, etc.

WE ARE ABLE TO QUOTE THE LOWEST PRICES FOR WHOLESALE DEALERS.

Address all Correspondence to NEW YORK HOTEL, 665 Broadway, NEW YORK CITY.

Mammoth Verbenas.New, large-flowered, very fine quality.
Per Ounce, \$1.50.**CHOICE FLOWER SEEDS**
For Florists.

Price List free on application.

HERRMANN'S SEED STORE,413 E. 34TH STREET,
Near Long Island Ferry, NEW YORK.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

WE ARE HEADQUARTERS ON
BULBS FOR FORCING,
FLOWER SEEDS FOR FLORISTS
ENGLISH MUSHROOM SPAWN.

Special prices on application.

JOHN GARDINER & CO., Seedsmen,
631 Market St., Philadelphia, Pa.**C. H. JOOSTEN, Importer,**
36 Dey Street, NEW YORK.**SPECIALTIES:**

Bulbs, Azalea Indica, Palms, Roses,
and all kinds of Nursery and
Fruit Tree Stocks.

Catalogues on application.

Always mention the American Florist when writing to advertisers.

Florists' Sweet Peas**New Sweet Pea "America"**

Is more distinct and striking than any other variegated Sweet Pea in existence, and is of the large flowering type. Its color is a white ground and through the center of the standard is a wide carmine scarlet blotch veined with the scarlet lines running toward the edges and showing in the same manner on the wings. The dashing contrast of the heavy scarlet blotch on the white ground makes the blossoms very effective in a mass of cut bloom or when flowering in the garden. It is indispensable for any complete collection of colors in Sweet Peas. Pkt. 15c; 2 for 25c; 5 for 60c; 10 pkts. \$1.00; 100 pkts. \$7.50.

BLUSHING BEAUTY, clear "Daybreak" pink. Largest size. Oz. 5c; 1-4 lb. 12c; 1b. 35c; 5 lbs. \$1.50.

COUNTRESS OF RADNOR, clear lavender, very large flower. Oz. 5c; 1-4 lb. 15c; 1b. 45c.

EMILY HENDERSON, pure white, large early. Oz. 5c; 1-4 lb. 12c; 1b. 35c; 5 lbs. \$1.50.

HER MAJESTY, clear bright rose, very fine flower. Oz. 7c; 1-4 lb. 15c; 1b. 45c.

FIREFLY, brightest fiery scarlet, large. Oz. 10c; 1-4 lb. 20c; 1b. 60c.

MRS. ECKFORD, best large yellow. Oz. 7c; 1-4 lb. 18c; 1b. 55c.

MRS. SANKEY, large, white. Oz. 5c; 1-4 lb. 15c; 1b. 40c; 5 lbs. \$1.75.

INVINCIBLE CARMINE, deep crimson scarlet. Oz. 6c; 1-4 lb. 12c; 1b. 35c.

TRUE LOTTIE ECKFORD, white, blue edge, large. Oz. 5c; 1-4 lb. 15c; 1b. 40c; 5 lbs. \$1.75.

For other varieties see our "Book for Florists," sent free to florists.

VAUGHAN'S PRIZE MIXTURE SWEET PEAS. 10 lbs. \$7.00; 1b. 80c; 1-4 lb. 25c; oz. 15c.

ECKFORD MIXTURE. 10 lbs. \$5.00; 1b. 60c; 1-4 lb. 20c; oz. 10c.

Florists' Forcing Mixture. 1b. 60c; 1-4 lb. 20c; oz. 10c.

ALL COLORS MIXED. 10 lbs. \$2.50; 1b. 30c; oz. 5c.

If to go by mail, add 8 cts. per pound to above prices.

VAUGHAN'S SEED STORE,NEW YORK:
26 Barclay St.CHICAGO:
84 Randolph St.**A SMALL STOCK ONLY.****Now on Hand:**

DOUBLE PEARL TUBEROSES, large size, good quality, solid and well ripened, \$1.50 per 100; \$10 per 1000.
(250 at 1000 rate.)

Large No. 2 Bulbs, 75c. per 100; \$5.00 per 1000.

GLADIOLUS, CALADIUMS, AND OTHER BULB STOCK.

CATALOGUE FREE.

DAN'L B. LONG, Jobbing Florist,
BUFFALO, N. Y.**Try VAN ZONNEVELD BROS. & CO.'S**

SASSENHEIM, HOLLAND,
Hyacinths, Tulips, Crocus, Daffodils, and other bulbs.

They are strictly first-class and cheap. Special quotations for Wholesale Importers.

Address all correspondence until May 1st to

W. VAN ZONNEVELD,
care J. W. Hampton, Jr. & Co., 41 Broadway, New York.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Montreal.

As reported in my last the Easter trade was the best on record. Good flowers and plenty of them, good prices and good weather, were the causes which led up to the above result.

Mr. Bennett and his Montreal confreres are very thankful to Mr. Scott for his sympathy, but would say the use of the sleigh in handling a large Easter plant trade, especially with the thermometer 50° in the shade, is not one of our worst grievances in this northern climate.

At the regular monthly meeting of the Gardeners' and Florists' Club, which took place last Monday evening, J. Bennett read a paper on "Useful Summer Flowers for the Florist." It was a comprehensive list of things that should be grown both on private and commercial places, also some very practical hints on their culture, which was well received by the members; the discussion which followed was also very interesting and instructive.

Mr. Walter Wilshire also read a paper on the florist's trade. He treated the subject from the grower's standpoint, he deplored the existing condition of the business, but it is a satisfaction that the same condition of things is common to all lines of trade. He strongly advised the growing of specialties, with the view of producing stock of better quality, as only good flowers will sell nowadays.

The president announced that the club's charter was now complete and exhibited the documents.

The prize list for the next chrysanthemum show was circulated among the members; it is a great improvement on previous lists, the prizes being larger and several new sections being added.

Mr. Joseph Bennett's resignation from the executive committee was accepted and Mr. J. Holliday elected in his place.

John Kirkwood, late foreman for Walter Wilshire, has gone to Compton, Que., to take charge of the Hon. Senator Cochrane's place. BEAVER.

Davenport, Ia.

The Tri-City Florists' Club has reconsidered its vote not to have a chrysanthemum show, and last week voted to have a chrysanthemum show on November 11, 12, 13 and 14, the week following the presidential election.

For the past two years the Florists' Club has given the exhibition for the benefit of the public library; this time it will be for the benefit of the club.

J. T. TEMPLE.

CARNATIONS

Orders solicited for **ROOTED CUTTINGS.**
KOHINOOR takes the lead.

Other Novelties of the Standard sort at standard prices. All healthy and strong.

C. J. PENNOCK,
 The Pines. KENNETT SQUARE, Chester Co., PA.
 Mention American Florist

Della Fox and Annie H. Lonsdale
A.L. SOLD.

MYERS & SAMTMAN, Chestnut Hill, Phila.

THE DIRECTORY FOR 1896

IS NOW READY.

PRICE \$2.00.

AMERICAN FLORIST CO.

IVORY! THE GREAT SUCCESS!

NOTHING IS IN MORE UNIVERSAL DEMAND BY FLORISTS THAN A GOOD, PRODUCTIVE WHITE CARNATION.

In **IVORY** you will have it. Try it and you will have a money maker. It produces as many blooms as Wm. Scott, is as perfect in form as any Carnation yet produced, held by a calyx that never bursts and carried on a long, wiry stem. What more do you want?

Fine plants from soil, \$10 per 100; \$75 per 1000. Stock ready now.

Also fine stock of *all the other leading varieties.* SEND FOR PRICE LIST.

GEO. HANCOCK & SON, Grand Haven, Mich.

HERR'S CARNATIONS.

ROOTED CUTTINGS that will give good results, because they are taken from healthy stock, and will be well rooted when sent out.

VARIETIES:

McGOWAN,
STORM KING,
ALASKA,
ANNIE LONSDALE,
IVORY.

DAYBREAK,
SCOTT,
ROSE QUEEN,
PEACHBLOW,
DELLA FOX.

DORNER,
STUART,
PORTIA,
JUBILEE,
IAGO.

HELEN KELLER,
KITTY CLOVER,
ELDORADO,
CARTLEDGE,
TIDAL WAVE.

Fourteen large houses full of Carnations. State how many you will want of each variety in asking for prices.

L. B. 496.

ALBERT M. HERR, LANCASTER, PA.

NEW CARNATION, W. D. SLOANE.

This new sort will prove a leader to all Florists. We know of no better variety of its color, and none can equal it in fragrance. The plant is a strong and vigorous grower, needing but little support, with dark foliage about as heavy as Tidal Wave. Flowers are large, good substance and lasting qualities, borne on stiff stems 15 to 20 inches in length; color a beautiful cerise. Very profuse bloomer.

PRICE, \$10.00 PER 100; \$75.00 PER 1000.

Pitcher & Manda, Short Hills, N. J.

Sam'l S. Pennock, 1612 Barker St., Philadelphia, who handles the entire crop of flowers of this new variety, says under date of March 26th, 1896: "Your W. D. Sloane, the way you grow them, are certainly fine, with the long stiff stems and good sized flowers. A ready sale for them is found at an advanced price over the average varieties."

The Bridesmaid Carnation

is the pink carnation you want. It averages more HIGH GRADE blooms than any other pink variety grown. It has a long stiff stem, strong calyx, perfect form of flower and a color that cannot be excelled in its class. It sells quickly at a high price, and stands at the head of the list of pink carnations. It won the honors at the American Carnation Society Show at New York as best pink in classes A, B and C. Its growth is clean and healthy.

Order now to get your stock early.

No Rust, Strong Cuttings.

\$5.00 per 100, \$40.00 per 1000.

If you have not already received our list send for it.

F. DORNER & SON,
LA FAYETTE, IND.

CARNATIONS, ROOTED CUTTINGS

WM. SCOTT, LIZZIE MCGOWAN,
\$10.00 per 100.
DAYBREAK, TIDAL WAVE,
\$12.00 per 1000.

All in fine condition. No order for less than 500 plants desired. Cash with order.

C. SOLTAU & CO., 199 Grant Ave., Jersey City, N. Y.

CARNATIONS.

Rooted Cuttings in immense quantity, strong and well-rooted and particularly free from rust.

Daybreak, Wm. Scott, Thos. Cartledge, Tidal Wave \$2.00 per 100; \$15.00 per 1000
 Lizzie McGowan, Silver Spray, Portia, \$1.50 per 100; \$12.00 per 1000

Lady Campbell Violets in any quantity, \$1.00 per 100; \$8.00 per 1000.

JOS. RENARD, Unionville, Chester Co., Pa.

The Crack Carnations:



SCOTT, ALBERTINI,
DAYBREAK, MCGOWAN.

Selected Cuttings, well rooted in sand and soil, delivery February 15th and later, \$2.00 per 100; \$15.00 per 1000.

Send your order at once, with cash, to get these figures . . .

ALEX. McBRIDE,
ALPLAUS, N. Y.

CARNATIONS.

ROOTED CUTTINGS,

In large quantities, see list of varieties in **FLORIST**, March 21st. Send for price list.

H. WEBER & SONS, Oakland, Md.

50,000 CARNATIONS ROOTED CUTTINGS

Now Ready

Positively clear of RUST. Send for price list.

William Swayne,

P. O. Box 226. KENNETT SQUARE, PA.
 Mention American Florist

DO YOU WANT CARNATIONS?

If so, why not GROW the BEST?

50,000 ROOTED CUTTINGS, including
 Daybreak, Wm. Scott, Goldfinch, Lizzie Gilbert, Emily Pierson, Lizzie McGowan, Tidal Wave, S. Spray, Hine's White, &c
 Can do you justice in quality and prices. Write me before you buy. Address **CHAS. CHADWICK,**
Lock Box 11, Grand Rapids, Mich.

HAVE YOU ORDERED THE

New Seedling Chrysanthemum Wm. Simpson

THE EARLIEST LARGE CHRYSANTHEMUM.

CUT OCT. 15

PRICE TO THE TRADE:

50c. Each, \$5 per Doz., \$35 per 100, \$200 per 1000

JOSEPH HEAGOCK, Wyncote, Pa.

And for sale by Henry A. Dreer, 714 Chestnut Street, Philadelphia; Henry F. Michell, 1018 Market Street, Philadelphia; Geo. C. Watson, 43 N 10th Street, Philadelphia; E. G. Hill & Co., Richmond, Ind.; Nathan Smith & Son, Adrian, Mich.; The Cottage Gardens, Queens, L. I., N. Y.; Henry G. Standen, Haverford, Pa.; A. Blanc, Philadelphia, Pa.; Robt. Craig, 49th and Market Sts., Phila.; J. C. Vaughan, 81 Randolph St., Chicago, Ill.; John N. May, Summit, N. J. Mention Am. Florist.



Carnation Orders BOOKED NOW.

Good, clean, well-rooted stock. NO RUST.
Per 100 Per 1000

BRIDESMAID.....	\$5.00	\$50.00
METEOR.....	5.00	40.00
STORM KING.....	5.00	40.00
UNCLE JOHN.....	3.00	25.00
STUART.....	3.00	25.00
E. A. WOOD.....	3.00	25.00
GOLDFINCH.....	4.00	35.00
WM. SCOTT.....	2.50	20.00
DIAZ ALBERTINI.....	3.00	25.00
DAYBREAK.....	3.00	25.00

CHRYSANTHEMUMS.

	Each	Doz.	100
Mrs. W. C. Egan, new (ready March 1).....	\$.50	\$5.00	\$50.00
Tippecanoe, new (ready March 1).....	.50	5.00	35.00
Amaranth new (ready March 1).....	.50	5.00	35.00
Mr. E. M. Bigelow.....	1.00	8.00	
Mrs. S. T. Murdock.....	1.00	8.00	
Oakland.....	1.00	8.00	
Major Bonaffon and other choice older standard sorts.....	.75	5.00	

Send for descriptive trade list.

F. DORNER & SON,
LA FAYETTE, IND.

THE COTTAGE GARDENS,

C. W. WARD, Mgr. QUEENS, L. I., N. Y.

WHOLESALE SPECIALTIES:

Carnations, Chrysanthemums,
Cannas, Geraniums.

3000 SURPLUS CARNATIONS.

I have 1000 DAYBREAKS, at \$20 per 1000,
and 2000 McGOWANS, at \$15 per 1000.These are well grown plants from flats and
are extra value.

W. A. WETTIN, Hornellsville, N. Y.

CHRYSANTHEMUMS.

EXTRA OFFER:—I will send 100 Chrysanthemum plants of the new varieties of 1895, in twenty varieties, to one address for \$2.50 by express; \$5.00 by mail; including Edith Smith, Minerva, Mrs. H. Robinson, Dean Hole, Jeannie Falconer, Marie Louise, Miss Pullman, Philadelphia, Camille d'Arville, Mme. Chas. Moilin, Mrs. W. A. Bryant, Miss G. Compton, Olympus, W. B. Desmore, Gold Dust, Miss L. D. Black, The Egyptian, Beauty of Exmouth, Royal Windsor, Bull Globe, Golden Palace, G. S. Yoshilike and Rose Yoshilike.

MEREDITH B. LITTLE, Clens Falls, N. N.

NEW LATE PINK CHRYSANTHEMUM FRANCIS B. HAYES

JAMES COMLEY, Originator, says:

"I have seen, grown, and watched the FRANCIS B. HAYES Chrysanthemum for two years. I think it one of the best ever raised in this country, and is a chrysanthemum that every grower ought to have."

Awarded Certificates of Merit by N. C. S., November 17, 1891; Massachusetts Horticultural Society, November 17, 1891, and N. Y. F. C., November 25, 1895.

\$4.00 per dozen; \$25.00 per 100. Ready May 1, 1896.

F. MACRAE, 1138 Smith Street, PROVIDENCE, R. I.

WILLIAM J. MARTIN, says:

"I have found the FRANCIS B HAYES to be a remarkable variety of dwarf, robust habit, short jointed, with large dark green foliage well up to the flower. The flower is an ideal bloom and of a beautiful glistening pink of large size and a perfectly incurved, in the style of Major Bonaffon; of excellent keeping qualities; time of flowering late. It would be impossible for me to recommend it too highly for private or commercial use."

PINK IVORY,

(MISS AGNES L. DALSKOV.)

The invincible New Chrysanthemum, Strong, healthy plants from
2-inch pots \$2 00 per dozen; \$10 00 per hundred.

SPECIAL PRICES ON LARGER QUANTITIES.

M. HANSEN, New Durham, N. J.

OUR NEW Chrysanthemums FOR 1896

Have been fully indorsed by the
Chrysanthemum Society
of America.

Descriptions and prices free on application.

NATHAN SMITH & SON,
Adrian, Mich.

When writing mention American Florist.

Marie Louise Violets.

Fine, clean, healthy clumps . . . \$5.00 per 100.
Rooted runners from clumps . . . 5.00 per 1000.
Not a diseased plant in all my houses. Cash
with order.

JOSEPH MARKLE, Rhinebeck, N. J.

Chrysanthemum Novelties

Following varieties our seedlings, except Governor Budd. They have been awarded Certificate of Merit from California State Floral Society.

PEIDE OF JAPAN—Perfectly round; deep pink.

GOLDEN CORONET—Gorgeous, bright, intense yellow; incurved.

MRS. HUNTER—Improvement on Lady Playfair.

MRS. J. SEULBERGER—Grand white, style of Ivory; size as much as The Queen, with great depth; slightly hairy.

MRS. MARGUERITE CARBONE—Best of hairy varieties, incurved, snow white.

VERNAL BEAUTY—A grand size, incurved, salmon yellow and buff.

THE KING—Incurved, red and bronzy gold, great size and depth.

GOVERNOR BUDD—Yellow, sport from The Queen.

Price, 50c each; \$5 per dozen; \$35 per 100.

CASH WITH ORDER. Send Catalogue free on application. Address

DOMOTO BROS., Japanese Nursery,

E. OAKLAND, CALIFORNIA.

Mention American Florist

Mention the American Florist when
writing to advertisers on this page.

Springfield, Mass.

The unusual cold during the week preceding Easter, especially the Saturday before, blocked sales somewhat, especially of plants. With all due precaution some of the florists still suffered from frozen plants. It made the work of packing twice as hard and long, and all had to hustle to get orders out on time. The mercury stood for the most of the week and over Easter at about zero or below.

The unscrupulous demands of some commission men are to be deplored. Even though they exacted an exorbitant price for carnations the stock itself was very poor and unsatisfactory. They had been stored so long that when they were exposed to the air they would blacken and wither, thus causing quite a loss to the retail man. The demand was far greater than the supply, and customers rather kicked at the prices they had to pay, which price was hardly enough for the firm to get out right, and even then so many had to be thrown away one might as well not have had them at all.

Easter Sunday, however, opened up beautiful, weather being warmer. Some of the churches were elaborately decorated. One, the South Church, was made very beautiful with violets, hyacinths and Easter lilies. The old First Church had everything in white and green, some Southern smilax being used with beautiful effects there. Unity also blossomed forth in these two prevailing colors, the lilies being used almost exclusively. Christ Church was decorated in different colors, which were blended together beautifully. Other churches were miscellaneously decorated, but all used lilies, the Easter flower.

Easter week was gay with social affairs of more or less prominence. First came the Cushman-Flynt wedding at Monson. The decorations consisted of Easter lilies, tulips, carnations and Bridesmaid roses, colors predominating, of course, pink and white. Southern smilax was also used as the green, and was beautiful.

Two weddings on Wednesday, one being quite elaborate. It was supposed to be an Easter bridal and so decorated according with Easter lilies, valley and roses, with the beautiful green of the Southern smilax.

The other wedding on Wednesday will be interesting to those who remember Mr. E. W. Clark, who for so many years was in the flower trade here. His youngest daughter Edith was on that day united in marriage with Edwin Thayer, a young man of social and business importance in this city. It was a home wedding and the house was decorated with palms and Southern smilax, and was a lovely setting for the pretty bride.

Trade has been quite brisk since Easter. Carnations still are very short and violets are getting scarce. Every one now is thinking of their flower gardens and are calling for sweet pea seed and other kinds. B. M.

THE AMERICAN FLORIST (\$1.00) and *Gardening* (\$2.00) together to one address for one year for \$2.50. Send orders to American Florist Co.

FLOWERS at RETAIL.

We are prepared to fill orders—received by mail or telegram—for Cut Flowers, etc., to be delivered in Cincinnati and suburbs or nearby towns.

37% Customary discount to the trade.

HUNTSMAN & CO.,

615 Race Street, CINCINNATI, O.

ROSES, TREES, BULBS, PLANTS.

200,000 Strong, hardy, nursery grown Roses.
500,000 Pot Roses, Teas, China, Bourbon, etc.
Greenhouse plants of all descriptions.

100,000 Elegant Poplars, 5 to 25 feet, Carolina Aurea, Lombardy.

ONE THOUSAND CAR LOTS of OTHER ORNAMENTAL TREES, SHRUBS, Etc.

250,000 Peach, choicest sorts.
150,000 Pear, standard and dwarf.
100,000 Plum, best European and Japan.
75,000 Cherry, Morellos, Hearts, etc.
150,000 Apple, Quince, Apricot.

100,000 Nut bearing trees.
2,000,000 Small Fruits, Grapes, Currants, Gooseberries, Raspberries, Blackberries, Dewberries, Strawberries.

We occupy one and a half miles on the bank of Lake Erie. No healthier, hardier trees are grown on the continent. Catalogue and Trade List free. Lower quotations given on large lots. Write us We can do you good

42nd YEAR. 1000 ACRES. 29 GREENHOUSES.

THE STORRS & HARRISON CO., PAINESVILLE, OHIO.



BLOOMERS FOR FLORISTS.

— THINK OF IT —

CUSHMAN'S GLADIOLUS BULBS,

a sure fit at popular prices.

CUSHMAN GLADIOLUS CO., Euclid, O.

Hardy Herbaceous Plants

\$50 per Thousand.

offer will not appear again, and anyone wishing to avail themselves of this opportunity to secure a stock of these popular plants should send in their orders at once, so that plants can be reserved for spring shipment. WE GUARANTEE FIRST-CLASS STOCK IN EVERY CASE.

PITCHER & MANDA, SHORT HILLS, N. J.

AZALEAS, The finest commercial varieties.

PALMS, Large, healthy stock, well grown.

ARAUCARIAS, From Cuttings only.

BAY TREES, Perfect shape, in all sizes.

SANDER, BRUGES, BELGIUM.

Agent: A. DIMMOCK,
106 & 108 Liberty Street, NEW YORK.
SEND FOR SPECIAL OFFER.

SPECIALTIES

IN BEST VARIETIES.

ROSES, from 3-inch pots.
CARNATIONS, for fall delivery.
CHRYSANTHEMUMS.
SMILAX.

VIOLETS.

Prices low. Send for list.

WOOD BROTHERS, FISHKILL, N. Y.

THE FAMOUS NEWPORT CANNA, "Mrs. Fairman Rogers."

Has all good points. Two Silver Medals and three First-Class Certificates awarded.

Plants, \$6.00 per dozen. Stock limited.

J. S. COWLES, Newport, R. I.

	Per 100	Per 1000
ALYSSUM.....	\$.50	\$ 7.00
HELIOTROPE.....	1.00	9.00
PARIS DAISY.....	1.00	9.00
EUCHSIA.....	1.00	9.00
CHRYSANTHEMUMS.....	1.00	9.00
GERANIUMS.....	1.50	15.00
In 2-inch pots add 50c. per 100.		
CARNATIONS—Rooted Cuttings:		
Lizzie McGowan, Silver Spray, Louise Singler,		
Daybreak, Tidal Wave, Scott, \$1.50 per 100;		
\$10.00 per 1000. C. LENCENFELDER,		
Berteau and Western Ave., CHICAGO.		
Mention American Florist.		

THE WM. H. MOON CO.

MORRISVILLE, Bucks Co., PA.

Offer the following to the Trade:

ORNAMENTAL GRASSES in variety.
5,000 ROSA WICHURAIANA.
HONEY-SUCKLES—20,000, Evergreen, Halliana and Golden.
CLEMATIS PANICULATA—10,000, one and two years old.
CALIFORNIA PRIVET—200,000, one and two years old.
FLOWERING SHRUBS—250,000, all sizes and varieties.
DECIDUOUS TREES—500,000, for streets and lawns.
EVERGREENS—500,000, large, medium and small.
Correspondence solicited in reference to anything needed in the way of nursery stock.

Mention American Florist

THE DIRECTORY

For 1896.

IS NOW READY.

Price \$2.00.

AMERICAN FLORIST CO.

APRIL OFFER.

	Per 100
Alternantheras, red and yellow.....	\$2.00
Ageratum, blue, 2-in. pots.....	2.00
Geraniums, 3-in. pots.....	4.00
Smilax, 2-in. pots.....	1.50
Pansies, cold frames.....	small \$1, larger 1.50
Cash with order.	

JOS. H. CUNNINGHAM, Delaware, O.

The Oaks Greenhouse Co., Jackson, Mich.

	Per 100
Begonias in variety, 2 1/2-inch pot plants.....	\$2.50
Chrysanthemums, 2 1/2-inch pot plants.....	2.50
R. Cuttings, standard vars.....	1.00
Marguerite Daisy, R. Cuttings.....	1.00
" " 2 1/2-inch plants.....	2.50
Gleehoma Hederacea, R. Cuttings.....	.50
Verbena, best strain.....	.75
Vinca Variegata, R. Cuttings.....	1.00
Cuphea, Pilea, German Ivy, etc.....	1.00
If to be sent by mail add 10c per 100. Cash with order.	

GENERAL COLLECTION OF PLANTS.

	Per 100
Amaryllis (Empress of India), 4 and 5-inch.....	\$45 to \$60 00
Artemisia, silvery foliage.....	3 00
Achyranthes, four kinds.....	2 00
Ageratum, White and Blue.....	2 00
Cuphea, 3 kinds, the best.....	2 00
Canna, Fancy French.....	5 00
“ Common, mixed.....	2 00
Coleus, all kinds.....	\$25.00 per 1000 2 50
Calla.....	\$4.00, \$6.00, 20 00
Cactus, in variety.....	5 00
Century Plants.....	\$10 to 15 00
Cyperus alternifolius.....	4 00
Croton.....	\$3 to 10 00
Cyclamen, 3 and 4 inch pots.....	8 00
Dracæna indivisa.....	\$10 to 20 00
Cinerarias.....	\$5.00 and 8 00
Epiphyllum, Lobster Cactus.....	8 00
Eulalia zebrina, Zebra Grass.....	5 00
Euphorbia splendens.....	5 00
Ficus australis, Rubber Tree.....	10 00
Fuchsias, general collection.....	\$2.50 to 3 00
Gladiolus.....	1 50
Geraniums, all kinds.....	\$3 to 4 00
Hibiscus.....	3-in. \$3; 4-in. 5 00
Heliotrope, 2-inch pot plants.....	3 00

	Per 100
Hydrangea, 3 and 4-inch.....	\$5 to \$8 00
Helianthus.....	4 00
Ivy, all kinds.....	\$3 to 10 00
Jasminum, 3 kinds.....	5 00
Lantana, fine, best varieties.....	4 00
Lemon Verbena.....	4 00
Lobelia.....	3 00
Moon-Flower.....	\$25 per 1000 3 00
Manettia, 2 and 3-inch pots.....	3 00
Alternanthera.....	2 50
Pandanus utilis, 2-inch pots.....	8 00
Pelargoniums.....	8 00
Petunia, double and single.....	4 00
Poinsettia, 5-inch pots, 20c each.....	15 00
Pansy, every variety.....	2 00
Pæonia, assorted.....	\$4 to 12 00
Primula obconica, 3-inch pots.....	\$3 to 6 00

	Per 100
Polyanthus.....	\$3 00
ROSES, Monthly and Tea.....	3 00
“ Hybrid Perpetual.....	2 50
Vincas.....	\$4 to 8 00
Verbenas, every variety.....	2 00
Chrysanthemums, 25 varieties.....	\$2 to 3 00
Carnations.....	\$3 to 6 00
Begonias, best assortment.....	\$3 to 8 00
Ferns. We grow Ferns for the market, and have several houses devoted to their growth.....	\$6 to 10 00
Palms and Decorative Plants. Our Palms are in fine condition, and we make better inducements than ever before.	
Bedding Stock of all kinds.	
Send for Our Complete Catalogue.	

TREE AND PLANT LABELS. MAILING BOXES.
WILLIAMS & SONS CO.,
BATAVIA, Kane Co., ILL.

FORGET-ME-NOT BLUE PERFECTION.

As a cut flower, read what two of the oldest and best known houses of Philadelphia say:

MR. ALBERT KNAPPER:—This season we have worked up quite a little trade on Myosotis, and consider it a good cut flower for the retail florist, which I think will grow more in favor.

SAMUEL S. PENNOCK.

MR. ALBERT KNAPPER:—We take great pleasure in recommending a good article, and can say that your Myosotis is a fine, large, strong flower, of a grand color, and the best we have seen for a great while.

CHARLES FOX.

A GOOD INVESTMENT. A GOOD KEEPER.
A GOOD SELLER. EASILY HANDLED.
NO DISEASE. ORDER NOW.

Has averaged at the wholesale market this winter from \$1.50 to \$2.00 per 100 flowers. Treatment similar to Violet Marie Louise or Carnations, from 40 to 50 degrees.

PLANTS, 2-in. pots, ready now, per 100, \$5.00.
ROOTED CUTTINGS, per 100, \$3; per 1000, \$25.

Cash with order please, or C. O. D.

ALBERT KNAPPER, Frankford, Phila., Pa.

PANSIES.

HERR'S COLD FRAME PANSIES, the strain that has made them famous. Per 100, \$1.75 and \$2; per 1000, \$12.50 and \$15.

PLANTS—Alternanthera, red and yellow, 80c per 100; 60c per 1000. Samples and other fine florists' ASTERS, mixed, at 65c per 100; \$5.00 per 1000.

COLEUS.

ROOTED CUTTINGS of red and yellow; also fine assortment of fancy, at 75c per 100; \$6.00 per 1000.

ALBERT M. HERR,
LANCASTER, PA.

Fine Anthemis coronaria superba fl. pl.
\$2 50 per 100.

3½-inch pot ROSES, our selection ... \$5.00 per 100
MOONVINE. \$3.00 per 100
CRIMSON RAMBLER. \$5.00 per 100, \$40.00 per 1000

Write for prices on anything you want.

NATIONAL PLANT CO.,
DAYTON, OHIO.

NORWAY MAPLES

7 to 9 feet, first-class.

\$25 per 100.

SAMUEL C. MOON,
Bucks Co., Pa. Morrisville.

Mention American Florist.

ROSES. ROSES. ROSES.

All the best New and Standard varieties for Winter forcing, or Summer blooming in the open ground, in Teas, H. Teas, Monthlies, Hybrid Perpetuals and Climbers. A grand stock of Mrs. P. Morgan now ready. Also

All the New and Choice **CHRYSANTHEMUMS** in fine condition; and in

CARNATIONS an extra fine lot ready for immediate planting, in fine, strong, transplanted stock of nearly all the leading varieties.

WRITE FOR SPECIAL PRICES ON LARGE LOTS TO

JOHN N. MAY, Summit, New Jersey.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pol plants. \$2.50 per 100; \$20 per 1000. Rooted Cuttings, \$1.00 per 100; \$8.00 per 1000.

NO RUST OR MILDREW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR. WE ARE THE LARGEST GROWERS OF VERBENAS IN THE COUNTRY. OUR PLANTS CANNOT BE SURPASSED.

New Carnation "Crimson Sport."

Large flower, finest velvety crimson, best keeper. Plants hardy, productive, free from disease. A good market variety. Send for list of rooted Carnation cuttings.

ROOTED CUTTINGS, \$1.50 per dozen; \$10.00 per 100; \$60.00 per 1000.

J. L. DILLON, Bloomsburg, Pa.

COLEUS.

HEADQUARTERS FOR ROOTED CUTTINGS

	Per 100	Per 1000
Golden Queen, the only yellow, and Crimson Verschaffelt.....	\$ 6.00	\$.75
Coleus in variety.....	5.00	.60
Cuphea platycentra (Clear Plant).....	6.00	.75
Ageratum, blue and white.....	6.00	.75
Feverfew Little Gem.....	10.00	1.50
Fuchsias, to name.....	12.00	1.50
Heliotrope, to name.....	8.00	1.00
Salvia splendens.....	10.00	1.25
Rose Geranium.....	8.00	1.50
Alternanthera p. major and aurea nana.....	6.00	.75
Heliotrope, 2½-inch pots.....	2.00	
Mt. of Snow Geranium, 2½-inch pots.....	2.50	
Vinca variegata 2½-inch pots.....	20.00	2.50

Selection of sorts to remain with us.

Cash with the order.

J. E. FELTHOUSEN, Florist, Schenectady, N. Y.



HEDYCHUM CORONARIUM (Myrosma canaliculata), the magnificent sweet-scented "Butterfly," or "Ginger" lily; easily grown, and very floriferous. Strong started plants, \$1 per dozen; \$7 per 100. Tubers, 75c per dozen; \$3.50 per 100.

NEPHROLEPIS EXALTATA (Sword Fern), fine plants, averaging 10 to 15 in. high, some much larger, \$2 per 100; \$14 per 1000. Send for large catalogue. **REASONER BROS., Uneco, Fla.**

Mention American Florist.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

We devote our whole attention to

DAHLIAS

WM. AGNEW.—New Cactus Dahlia of 1896; deep, glowing crimson-scarlet, clear and bright; 6 to 7 inches in diameter; deep and full to center, with beautifully twisted petals. 40c each, \$3.50 per 12. Send for descriptive Novelty list.

W. P. PEACOCK, Atco, N. J.

SEEDS ... FOR THE ...
Garden and Farm
Vegetable and Flower Seeds. All the newest and best varieties—quality unsurpassed. Illustrated Catalogue **FREE**.
WEEBER & DON, Seed Merchants and Growers,
114 Chambers St., New York City.

E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

Please mention the American Florist every time you write any of the advertisers on this page.

Grand Rapids, Mich.

Heavy storms and cold weather during the early days of the week threw 75% of the Easter trade into Saturday. The result was that with one or two exceptions sales did not come up to last year. The churches did less decorating than ever before.

Our florists did not "hit it" just right with their Harrisii, but enough did to supply others, so that it is safe to say that 1,200 of these plants found their way into houses, not counting a large number an enterprising grower sent out on Saturday with the compliments of the firm.

Next to Harrisii, carnations, tulips and roses came in for popular favor, while vast quantities of violets were sold. Small potted plants sold well, but spiræas, hyacinths and narcissus did not move as in previous years.

Crabb & Hunter opened for a week a store on Monroe street and report having had a very successful week.

Chapman had a large number of very fine azaleas of the smaller sizes but perfect, and sold out.

Chas. Chadwick cut twenty thousand violets, most of which went to Chicago.

The custom of giving a small plant to each pupil in Sunday school is getting quite common here on Easter Sunday, and many of the schools offer premiums to the most successful grower of his plant shown at the June children's day exercises.

CREELMAN.

Oswego, N. Y.

Easter trade was not up to that of last year owing to the very unfavorable weather. The weather during the first part of the week was all that could be desired, and orders came in at a lively rate, but on Wednesday the glass fell to 12° above, with heavy northwest gales and snow storms sandwiched in, for the rest of the week, which seriously interfered with trade generally, and the delivery of plants was made very difficult.

The supply of carnations, roses and violets was little short, while there was somewhat of an oversupply of lilies and bulb stuff. Quality was good, roses being better than last year. Call for plants less than last year. There was a marked increase in the demand for carnations with a corresponding decline in the call for roses.

H. Y.



PALM
Seed NOW ON HAND
FRESH CROPS.

	per 100	per 1000
Arecas Intescens	\$1.25	\$10.00
Cocos Weddeliana	1.50	12.50

The import of this variety did not turn out very satisfactory; above prices are for selected seeds.

Latania borbonica	.35	2.50
Livistona rotundifolia	2.75	25.00

All Chamaerops, Phoenix and many others now in stock. A full list on application.

J. L. SCHILLER, Rutherford, N. J.

NEW BRANCHING ASTERS.

VICK'S WHITE BRANCHING	per oz.	\$2.00
" PURPLE	"	1.50
" ROSE	"	1.50
" SEMPLE'S PINK	"	.75
ZIRNGIEBEL'S DOUBLE WHITE	"	1.50

Trade packet of any of the above, 25 cts. or the set of five varieties, one trade pkt. or encl. \$1.00.

Write for our Catalogue.

VICK & HILL CO., Rochester, N. Y.

Mention American Florist

The American Florist Company's D·I·R·E·C·T·O·R·Y·



— OF —
FLORISTS,
NURSERYMEN
AND SEEDSMEN

— OF THE —
UNITED STATES AND CANADA,

— AND —
REFERENCE BOOK,
FOR 1896,

IS NOW READY

CONTENTS.

The names and addresses of all the Florists, Nurserymen and Seedsmen in the United States and Canada, arranged alphabetically in States and Provinces, the exact branch of the business each is engaged in being indicated by the following

. . . . KEY

- F** Florists who do a general local trade, having greenhouses and retailing the product of same.
- G** Florists who grow cut flowers or plants for the wholesale market and who do not sell at retail. Almost always within a short distance of a large city.
- R** Retail store florists who have no glass of their own. Nearly always in the large cities.
- D** Wholesale commission dealers in cut flowers.
- N** Nurserymen.
- X** Those who are both Nurserymen and Florists.
- S** Seedsmen.
- Z** Those who are both Seedsmen and Florists.
- A** Those who combine all the branches, viz.: Florists, Nurserymen and Seedsmen.

. . . . ALSO

- A list of Trade Organizations, both National and Local, with names and addresses of principal officers, time and place of meetings and date of organization.
- Statistics regarding Floriculture, the Nursery Industry and Seed Growing from the last U. S. Census report.
- A list of firms in the trade that issue catalogues, with a key indicating the prominence of each branch of the trade in same.
- A list of leading Cemeteries in which attention is paid to Ornamental Horticulture.
- A list of leading Park Superintendents and of the Botanical Gardens of the United States.
- Seasonable Hints for the year about the practical work of the Florist, written by Wm. Scott, giving instructions not only when to do certain work, but how to do it most effectively and economically.
- A complete alphabetical list of Roses in commerce in America, brought up to date and of incalculable value for reference.
- Similar lists of Chrysanthemums, Carnations and Cannas.
- Historical sketches to date of the Society of American Florists, American Carnation Society, National Chrysanthemum Society of America, Florists' Hail Association, American Seed Trade Association and American Association of Nurserymen.
- A list of Leading Horticultural Societies.
- Full and accurate information about Express and Postage rates.

Chicago, Dec. 18. 1896.

Messrs. Kroeschell Bros. Co.
City

Gentlemen:

In reply to your inquiry we must say
that we are well satisfied with ^{your} boiler. It works well
and saves us considerable coal. Our savings on
coal this winter we guess will amount to about
one-fourth of what the boiler cost us.

Yours truly
Damm Bros.

Chicago, Dec. 18. 1896
Kroeschell Bros. Co.,
41 to 59 Erie St. Chicago
Gentlemen

we great pleasure to ^{send}
my check for \$305.00 in payment
of green house boiler & ^{transport}
- The boiler is efficient
and a work of art, and
your boiler makers are the
most and pleasant
gang I have ever seen

Very respectfully,
William W. Greer
P.S. Please mail me one of
your little books -
wds

NATHAN M. FREER,
90 CHAMBER OF COMMERCE BLDG
CHICAGO, ILL.

SEE OUR ADVERTISEMENT, PAGE 1071.

Write for Catalogue.

KROESCHELL BROS. CO.

Paterson, N. J.

The Easter trade has been very good indeed this year, the churches of all denominations making a brave show. In one instance large palms, kentias and arecas were used as a backing for quantities of longiflorum lilies. Azaleas were also much in demand for decorations and gifts, the pure white and magenta shades being most in demand. Joseph Towell did very well with his Easter stock. He some very fine genistas and used them to good effect in church decorations. He also had fine azaleas, bottle brush and other flowering stuff, but found the demand for lilies greater than the supply, the lilies being the favorite gift in pot plants. Mr. Towell is sending in to New York very choice carnations. He still heads the list with his Minnie Cook.

McCornac & Co. report a better Easter trade than last year. They used flowering stock of all kinds, but fell short on lilies. Of course they have fine carnations. Some of the best now are Corsair, Minnie Cook, Alaska and Cartledge.

Edward Seery found his Easter trade quite up to that of last year. He used plenty of flowering plants of all sorts, but like the other Paterson florists he found the lilies the first choice as an Easter gift. Mr. Seery found a ready sale for all flowering plants, but in cut flowers carnations and violets were in the greatest demand.

Mr. Vescelius reports an excellent trade for Easter. He says his business was double that of last year. The demand for all cut flowers has been very good, but more especially for roses, carnations and violets. The demand for violets the day before Easter was very large, as it is the most correct flower for street wear. Mr. Vescelius is using some very fine white violets and gardenias in his trade.

The Paterson store keepers presented quite a bright and Easter-like effect, for most of them had pots of azaleas, lilies or some other flowering plant arranged in the window with the display of goods. Violets were to be had in any quantity of good quality and cheap. S. M. T.

Hackensack, N. J.

This has been a wonderfully good Easter for the florists here. Flowers were used in all the churches to a greater or less extent. The churches used mostly white and yellow, azaleas, genista, daisies and white tulips being the most conspicuous.

The Red Towers Greenhouses did a most satisfactory Easter trade, selling out entirely. Henry Hugues also sold out everything he had in the way of flowers and supplied plants for several church decorations. S. M. T.

BERNARD SPAE, GHENT, BELGIUM,

offers at moderate prices the following plants, of which he makes a specialty:

Azaleas Indica and Mollis; Araucarias excelsa, glauca and compacta; Palms, Rhododendrons, Laurus, Laurestinus; Spiraeas astilboides, floribunda and compacta; Metrosideros, Mimosa, etc., etc.

When writing mention the AMERICAN FLORIST.

Pansies and Verbenas

WE HAVE A LARGE STOCK.

Strong and stocky, coming into bud. A superior strain at the following low price:

	Per 100	Per 1000
PANSIES	\$0.40	\$4.50
MAMMOTH VERBENAS	.70	5.50
CALIFORNIA VIOLETS, rooted	1.00	8.00

S. WHITTON & SONS, Wholesale Florists.

City and Green Sts., UTICA, N. Y.

SUNBEAMS CANNA.



Altogether the best yellow yet produced. Exceedingly dwarf, only two feet, splendid foliage, wonderfully free and the flowers are of great size and substance. Flower heads large, full and compact. Almost clear yellow and very bright and clean in color. In effect, it is absolutely pure, brilliant yellow. Eldorado, Florence, Vaughan, etc., are not "in it" with Sunbeams.

Roots, dry or started, \$2.00 per dozen; \$15.00 per 100.

OTHER GOOD CANNAS.

All good strong roots in perfect condition.

	100	1000		100	1000
Alphonse Bouvier, - - -	\$2 50	\$20 00	MAD. CROZY, - - -	\$2 50	\$20 00
Capt. P. de Suzzoni, - - -	5 00	40 00	Mrs. Sarah Hill, - - -	3 00	25 00
Chas. Henderson, - - -	3 50	30 00	Paul Bruant, - - -	3 50	30 00
Chevalier Besson, - - -	3 50	30 00	Paul Marquant, - - -	2 50	20 00
Count Horace de Choiseul, -	3 50	30 00	Queen Charlotte, - - -	10 00	
Flamboyant, - - -	2 50	20 00	Secretary Stewart, - - -	3 00	25 00
Francois Crozy, - - -	2 50	20 00	William Elliott, - - -	2 50	20 00
Henry A Dreer, - - -	3 50	30 00			

THE LOVETT COMPANY, LITTLE SILVER, N. J.

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Now is the time to plants all Hardy Aquatic and sub-Aquatic plants. Our collection embraces the newest, choicest and best in cultivation, suitable for pond, lake or fountain basin. Bamboos, Giant Reeds, Grasses and Hardy Perennials; also a grand collection of newly imported Japanese Mountain Peonies, magnificent for all styles of planting in Parks and Gardens.

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Rooted Runners, \$4.00 per 1000.

Cash with orders.

E. B. SUTTON, Jr.

P. O. Address BABYLON, LONG ISLAND, N. Y.

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Verbenas, 24 varieties.....	80 cts. per 100; \$7.00 per 1000
Fuchsias 12 "	20 cts. per doz.
Heliotrope, 7 "	20 cts. "
New Giant Alyssum	20 cts. "
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Coleus, 12 cts.; Chrysanthemums.....	20 cts. "
Roses, 25 cts. Postage, 1 cent a dozen.	Cash.

I. L. PILLSBURY, GALESBURG, ILL.

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1500 Dracæna indivisa in 3-inch pots, ready for a shift into 4-in. First-class plants, \$5 per 100. Cash with order.

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Fairview Greenhouses. STILLWATER, MINN.

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For 1896

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GREENHOUSE
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Largest and finest stock in the United States. Write for prices to

S. J. RUSSELL,

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American Beauty, Violet, Bridesmaid,
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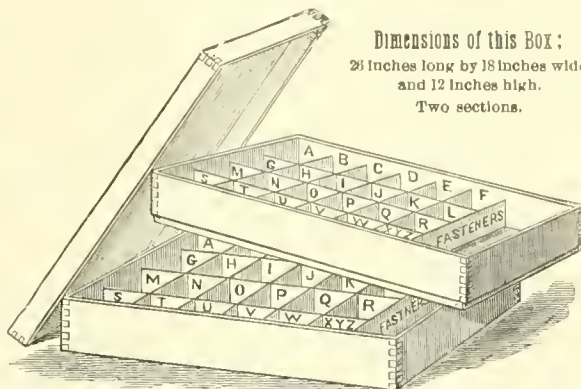
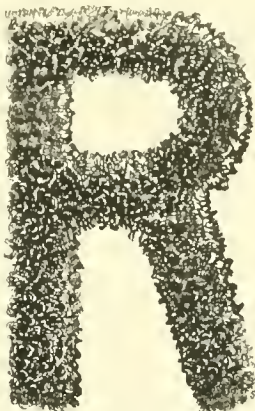
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PUMPING ENGINE.**Will pump water from any source, and force it to any height and distance. Simple, safe and free from care. Will burn any kind of fuel. Are supplanting all other means of supplying water on farms, country and city residences, dairy and stock farms, etc. Send for catalogue.
THE DE LAMATER IRON WORKS,
467 West Broadway, N. Y. City.

BRILLIANT GREEN AND BRONZE

GALAX LEAVES,

For Decorating and all Florists' Designs.

CHAS. H. RICKSECKER, Linville, Mitchell Co., N. C.Dimensions of this Box:
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Two sections.

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Walter A. Potter & Co., Providence, R. I.
J. C. Vaughan, 26 Barclay St., New York.
W. Ellison, 1402 Pine St., St. Louis, Mo.**ESTABLISHED****FLORISTS' WIRE DESIGNS**

MANUFACTURED BY

N. STEFFENS

335 EAST 21ST ST.

NEW YORK.**Neponset Flower Pots**of Waterproof Paper, are sold
as follows:Terms—Net cash with order. If ordered shipped by
freight, add 50 cents cartage.

Size	Packed in	Gross Weight	Per 100	Per 1000
2½ inch.	1,000	about 20 lbs.	\$0 25	\$2 00
3 "	1,000	" 23 "	30	2 30
3½ "	1,000	" 34 "	35	2 80
4 "	1,000	" 45 "	50	4 00
5 "	500	" 76 "	60	5 00
6 "	500	" 100 "	90	8 30
	500	" 150 "	1 50	13 35

Less quantities than full crates at 100 rates.

F. W. BIRD & SONS, Manufacturers.

Address orders to our General Agents,

August Rölker & Sons

New York. P. O. Station E.

or R. & J. FARQUHAR, Boston, Mass., Eastern Agents.

When you have a New Thing,write to us about illustrating it, either
in color or black and white. We can give
you superior results in pushing new p'ts
both in the printing and engraving.**J. HORACE MCFARLAND CO.**

..... HARRISBURG, PA.

"ROSE LEAF"

Extract of Tobacco

INSECTICIDE!

PRICE: 1 gallon can, \$1.50; 5 gallon can, \$5.00.

Applied either by vaporizing or by
syringing. Try it.**LOUISVILLE SPIRIT CURED TOBACCO CO.,**
LOUISVILLE, KY.**LEMON OIL INSECTICIDE,**

Used now by the leading Florists.

75c. per quart; \$1.25 per ½ gallon; \$2.00 per gal-
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SEEDSMAN,

1018 Market St., PHILADELPHIA.

**Collections,
Reports,
Black List,**

National Florists' Board of Trade,

271 Broadway, N. Y.

C. S. LODER, Sec'y.

THE DIRECTORY

FOR 1896

IS NOW READY.

PRICE \$2.

AM. FLORIST CO.

News Notes.

MEDFORD, MASS.—A. W. Crockford has opened a retail florist store at 7 Forest street.

TOLEDO, O.—This city has eight parks, containing a total of 691 acres, valued at \$825,570.

PAWTUCKET, R. I.—Frank O'Reiley & Son have removed to the new store at 10 Park place.

TYLER, TEXAS.—The 10th annual meeting of the State Hort. Society will be held here July 8 to 10.

SO. FRAMINGHAM, MASS.—Peter McPhee has bought the establishment of the Framingham Nursery Co.

MADISON, WIS.—A range of greenhouses will soon be built on the grounds of the University of Wisconsin here.

MECHANICSBURG, O.—S. L. Harper is building a new greenhouse 16½x70 for roses. He reports business good.

MELROSE, MASS.—Frank Gibbons, a well known gardener of this town, died suddenly on April 13, aged 65 years.

PITTSFIELD, MASS.—F. S. Follwell has purchased the Burbank greenhouses, and will engage in the florist business in this city.

LOUISVILLE, KY.—Easter trade was about 25% larger than last year, with no change in retail prices. Supply short on some stock. Increase in the call for plants, especially lilies.

WAYNESBORO, Pa.—Mr. Henry Eichholz, the florist, will be married April 28. The bride is Miss Alvina E. Sommer of Flatbush, N. Y., and the ceremony will take place at her father's home in Flatbush.

TOPEKA, KANS.—Easter trade was about the same as last year with no change in retail prices. Supply was equal to demand. An increase of 20% in call for plants. In flowers there was an increased call for roses, carnations and lilies.

ALLIANCE, O.—This section of the country was visited by a very destructive hail storm April 20. The florists suffered a severe loss in glass. L. L. Lamborn's loss was about 1,000 lights, J. F. Zimmerman's about 600 lights, and other florists in like proportion.

Jones, McDuffee & Stratton, Plant Pots and Pedestals

of all grades, sizes and values, direct from the best Potteries of England, France, Germany, China Japan and the U. S.

WHOLESALE AND RETAIL.

120 Franklin St. cor. Federal, Boston, Mass.

Mention American Florist.

FLOWER POTS.

We Manufacture all kinds of Flower Pots, etc. Making a Specialty of

Florist Standard Pots

Send for price list and samples (which will be sent free), and we know you will give us your order.

J. G. SWAHN'S SONS, Minneapolis, Minn.
When writing mention the AMERICAN FLORIST.

WIND MILLS FOR PUMPING WATER.

ECLIPSE—WOOD. FAIRBANKS—STEEL.

50,000 IN USE.

BOILERS FOR HEATING.

VALVES, PIPE ^{AND} FITTINGS.

FAIRBANKS, MORSE & CO. Franklin & Monroe Sts., CHICAGO.

Standard Flower Pots.

Send for our new price list, with extra discounts. All of our Pots from 7-inch and upwards have our Patent Excelsior Bottom, which is a great advantage as it insures perfect drainage.

A FULL LINE OF BULB PANS.

The Whilldin Pottery Company,

BRANCH WAREHOUSES: 713 to 719 Wharton Street, PHILADELPHIA, PA.
Randolph Ave. and Union St., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, N. Y.

STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere. Our facilities are unequaled.

A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

SYRACUSE POTTERY CO. OFFICE: 403 North Salina Street, SYRACUSE, N. Y.



Standard Flower Pots.

OUR POTS ARE OF THE BEST QUALITY.

We ship all goods from Cincinnati, guaranteeing lowest freight rates and prompt delivery.

Write us before placing your orders elsewhere.

CAMBRIDGE TILE MFG. CO., Covington, Ky.

THOS. W. WEATHERED'S SONS,
INCORPORATED.

Horticultural Architects and Hot Water Engineers

Send for Catalogue, enclosing 4 cents in stamps.

139, 141, 143 Center St., NEW YORK.

GLASS

For Greenhouses, Conservatories, Graperies, Hotbeds, and all other purposes, at Lowest Rates.

GLASS

N. COWEN'S SON, 392 & 394 W. Broadway, NEW YORK.

Get our Figures before buying Glass.

Estimates freely given.

GLASS. ROCK BOTTOM PRICES. Send for Estimate. Satisfaction guaranteed.

REED GLASS CO.,

102 South 5th Avenue, NEW YORK CITY.

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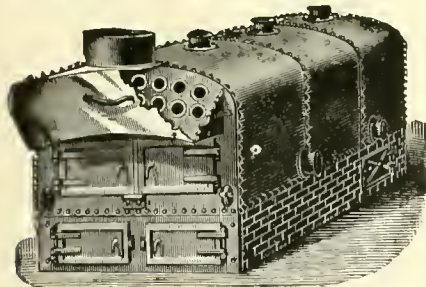
SAVE YOUR \$ \$ \$ by using our HANDY SASH LIFTER.

For prices, apply to GEO. W. HAMILTON, 176 Sidney St., Dorchester, Mass.

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Kroeschell Bros. Co. IMPROVED Greenhouse : Boiler,

41 to 55 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for Information.

CYPRESS

IS MUCH MORE DURABLE THAN PINE.

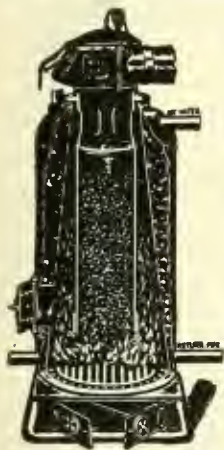
CYPRESS SASH BARS

UP TO 32 FEET IN LENGTH OR LONGER.

GREENHOUSE AND OTHER BUILDING MATERIAL.

Send for our Illustrated Book
"CYPRESS LUMBER AND ITS USES."
Send for our Special Greenhouse Circular.

THE A. T. STEARNS LUMBER CO.,
Neposens, BOSTON, MASS.



Mention American Florist.

WILKS HOT WATER HEATER.

BEST IN USE

FOR GREENHOUSES, SMALL.

LARGE and

All Steel. No Coils or Cast Iron Sections.

SEND FOR CATALOGUES.

WILKS MFG. CO., 123 S. CLINTON STREET, CHICAGO, ILL.



Iron Reservoir

VASES,

Lawn Settees

—AND—

CHAIRS

Are Manufactured by

McDONALD BROS., Columbus, O.

The largest manufacturers of these goods in the world. We issue a large 40-page illustrated catalogue, which will be sent free on application.

MAIL

For Insurance against
damage by hail,
Address

JOHN G. ESLER, Sec'y, F. H. A., Saddle River, N. J.

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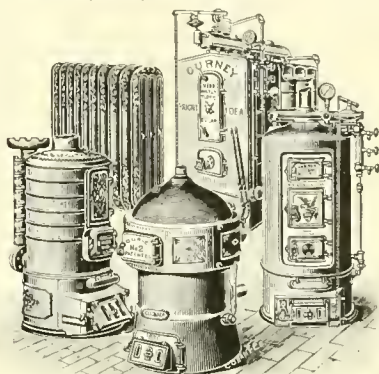


Clear Cypress Greenhouse Material

We have had many years' experience in this line. We introduced Cypress for greenhouse construction. We have made many improvements in the construction of greenhouses. We carry in stock many different designs of Rafters, Sash Bars and everything else from the bottom of gutters up. Our facilities are large, and we are prepared to furnish on short notice material of our own designs or any special designs, and all of open-air-dried clear Cypress Lumber which we have bought for many years of one party because this particular growth of Cypress is as soft as White Pine, and has none of the knots, sap and other defects so common to White Pine. Every foot of our stock is guaranteed Spot Clear. Write for circulars and estimates. No trouble to furnish plans when necessary.

LOCKLAND LUMBER CO.

LOCKLAND, O.



NEW YORK BRANCH:
STEAM APPLIANCE EXCHANGE,
82 & 84 Center Street.
CHICAGO SELLING AGENTS:
RUBEL & CO., 77 Lake Street.

Gurney

HOT • WATER • HEATERS
AND
STEAM • BOILERS.

They possess to the highest degree the
essential elements of construction which
place them in the foremost rank for
GREENHOUSE REQUIREMENTS.

CAPACITIES FULLY GUARANTEED.
Send for Catalogues.

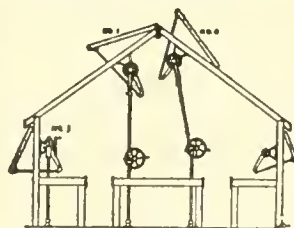
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163 Franklin St., Cor Congress, BOSTON, MASS.

STANDARD VENTILATING MACHINE.

NONE
EQUAL IT
IN
Strength
AND
Durability

Send for Catalogue.



E. HIPPARD, YOUNGSTOWN, OHIO.

NOTHING
Flimsy
OR
Complicated
about it.

CALIFORNIA RED CEDAR

NEVER DECAYS.

A. DIETSCH & CO., 619 Sheffield Ave.,

MFR'S OF RED CEDAR AND CYPRESS
GREENHOUSE MATERIAL.

CHICAGO.

TOBACCO STEMS.

Pennsylvania, Michigan. Write for them to

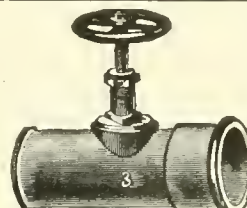
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EVANS' IMPROVED

Challenge Ventilating Apparatus

Write for Illustrated Catalogue.

QUAKER CITY MACHINE WORKS,
Richmond, Ind.

VALVES,
FITTINGS
AND
VENTILATING
APPARATUS.

COLDWELL-
WILCOX CO.,
Newburgh, N. Y.

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rist when writing to advertisers.

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Mansfield, Ohio.

The Berno Floral Co. will build two additional houses, each 65x12 for chrysanthemums and a fair sized violet pit. Business, according to reports, has been exceptionally good and the prospects for a good spring trade look bright and encouraging.

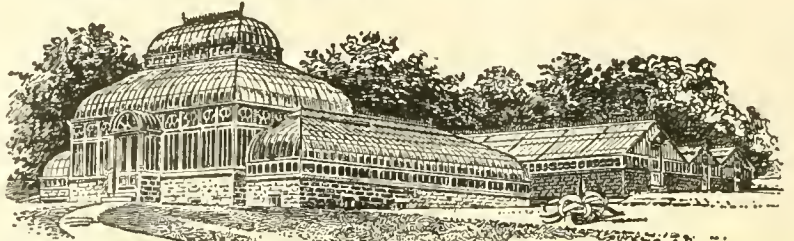
HOMO.

Mr. John Speelman, of Sassenheim, Holland, now making his annual American trip, says hyacinths will be scarce again this season. In tulips he finds less call for the forcing varieties and an increase in the demand for bedding sorts.

HEADQUARTERS
FOR
Natural
Prepared
CYCAS LEAVES
EQUAL
TO FRESH CUT
Prices per Pair
70¢ 80¢ 90¢ 1.00 1.20 1.50
AUGUST RÖLKER & SONS
136 WEST 24TH ST. NEW YORK

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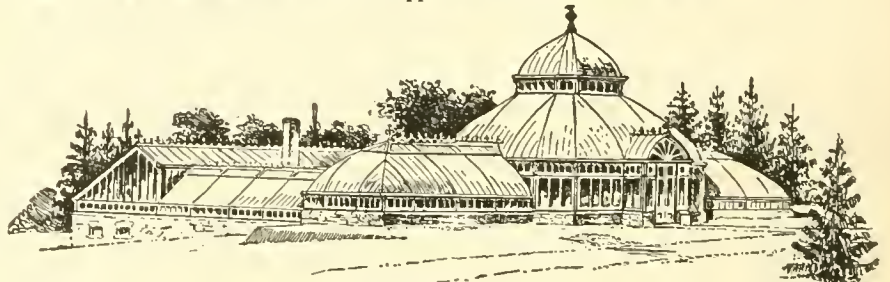
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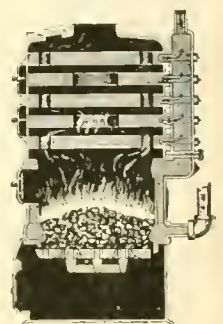
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Vol. XI.

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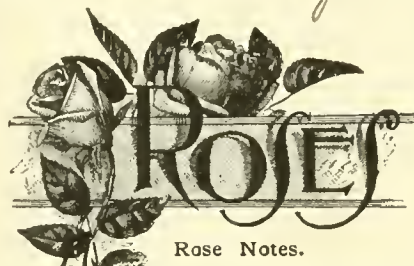
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land, O., August, 1896.

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Rose Notes.

One of the operations which must soon claim our attention, and one that is of the greatest importance to all rose growers, is that of getting together and preparing the soil for this season's planting. Doubtless a great many having sufficient time and forethought laid up their year's stock of soil last fall, but I am quite sure there are others who have not done so, to such I would suggest that immediate attention be given the matter.

During the winter I have had sent to me for answer letters from rose growers in all sections of the country; these people were in trouble and wished to get out if possible, and I have found that in most cases the soil was the cause of the trouble, or at least the chief cause. Good houses are very desirable with a maximum amount of light, experience and practical knowledge of rose growing is considered essential to even fair success, but both of these combined will be of little value if linked to unsuitable soil. Most of us have seen magnificent blooms in very inferior houses at times, also the veriest novice at rose growing far surpassing others who have had an extended experience. There may be exceptions, but I think the secret may generally be found in the soil; rose growing is rendered comparatively easy when given proper soil, and vice versa. Granted that such is the case we shall conclude that any man who beds his roses in inferior soil, when by a little trouble and extra expense he might have a good article, is lacking in good common sense. There are certain things which go to make up a good soil for roses; first in importance perhaps is the mechanical composition of the soil; that generally termed loam is usually recommended for roses, but the term is capable of such expansion that it is liable to be misleading. For instance there may be a difference in the amount of sand contained, between clay loam and light sandy loam of from 50 to 70%. I should say the clayey loam is just a trifle too adhesive, and the light sandy loam much too light for best results. A good soil for most varieties when taken in the hand and rubbed between thumb and finger should not be gritty, but have a soft, smooth, mellow feeling. I might state here that I have found Perle to do better in a soil considerably lighter than is usually recommended, while Bride, Mermet, Bridesmaid and Meteor prefer a soil with a strong tendency to clay. If

possible the soil should be rich in plant food, this may, however, be overcome by the use of fertilizers, but poor soil and very little manure will not produce luxuriant foliage and superb blooms. To economize at the manure pile is the poorest economy any florist can practice, the best rose growers of my acquaintance are those who do not spare the manure. There is however, a limit, beyond which its use is both wasteful and harmful; from $\frac{1}{3}$ to $\frac{1}{6}$ according to the richness or poverty of the soil, and quality of manure will be safe. Nothing so far has given such universal satisfaction as cow manure as a base, with an addition of sheep manure, wood ashes and bone meal in small quantities. The three latter may be (and I prefer it) mixed with the soil after it is in the benches, mainly because I do not care to trust the average laborer to mix it in with the compost.

The prevalence of eel-worm renders it highly important that we do not overlook this little fellow in putting together our compost, if he troubled us last or rather this year, and we take soil from the same piece of ground we may naturally expect a like result next season. I do not wish to enter into any controversy, but I think sod containing clover is more liable to introduce eel-worm into the benches than it would be without the clover, I would also repeat that light soil, and especially that from an elevation, which on that account is generally dry, seems to be best suited to their tastes. The natural inference to be drawn from this is that we should try to secure heavier soil from low ground. It is generally conceded, and very properly so I think, that tough sod full of fibre makes the best compost; some people recommend plowing the sod and then spreading on the manure, after which it is harrowed several times and plowed again, and so on until the whole is completely pulverized and ready for use. The objection I have to this is that the manure gets baked with the sun until much of the strength must be lost; on the other hand this method affords quite a saving in labor. At the same time the continued stirring and exposure to the sun and air thoroughly sweetens it and puts it in fine condition for use. The plan generally followed, and which perhaps is the best, is to plow the sod about three to four inches deep, and take only such as can be loaded with a manure fork, stacking it with the manure in thin layers, making the compost heap not more than five feet high. It is not advisable to drive over the heap because if the sod is pressed down firm it will not rot so quickly and is much more difficult to break up and mix. After the heap has laid four or five weeks it may be turned over, chopped up or pulverized and unless the manure was very fresh it is then ready for use. I do not advocate composting soil for roses a year or more

THE reference lists in the new Directory and Reference book give descriptions and other valuable information regarding 2,543 varieties of roses, 2,988 varieties of chrysanthemums, 495 varieties of carnations and 524 varieties of cannas.

in advance of using it, in such cases the fibre in the sod is lost, and the manure also has lost much of its strength.

ROBT. SIMPSON.

Rose Yellow Rambler.

The rose quite widely catalogued under this name is *Alister Stella Gray*, a very worthy variety, likely to be extensively grown. Another rose, hybrid of *Reve d'Or*, named *Aglaia*, is, however, also described as *Rambler jaune* (Yellow Rambler) by the French *Journal des Roses*. *Aglaia* is to be sent out by P. Lambert, of Trier, Germany. It is described as flowering in clusters in the same style as *Crimson Rambler*, as many as 150 flowers being seen at the same time on one plant. The similarity between *Alister Stella Gray* and *Aglaia* seems likely to cause confusion, but the pseudonym of *Yellow Rambler* belongs apparently to the first named by right of priority. The "Rambler" attachment to roses seems likely to cause as much confusion as "Ostrich Plume" to chrysanthemums.



Carnation Notes.

There is one more point worth mentioning in that interesting bulletin on bacteriosis, when Dr. Arthur says: "No varieties of the carnation are exempt from the disease, but they differ much in susceptibility. The seat of the difference is chiefly in the vigor of the plant. Poorly grown plants are more affected than those well grown. Partly starved or stunted plants are specially liable to attack. It must be remembered in this connection, however, that plants of any degree of vigor may be essentially free from the disease because the foliage is kept dry, so that the germs cannot pass from the surface into the stomata and aphides are absent.

Susceptibility can only be shown where the conditions for the spread of the disease are present. But on the other hand, if the conditions are particularly favorable to the disease, any plant, however vigorous, may succumb."

The variety *Uncle John* furnishes a very interesting example. I have found this variety of the quickest growth that has yet come to my notice. The young shoots grow up surprisingly fast, form bud and open out in full bloom. This quality makes *Uncle John* to my experience the most prolific bloomer, but beware, the slightest check or disregard for its welfare will develop the bacteria. The same quality that makes it so profitable to a careful grower, is also the source of being more susceptible to the disease; it seems the fast growth, as a natural consequence will make the leaves, the tissues, the cell walls softer, probably the cells may be larger, the cell walls thinner, it will render the whole construction of the leaf more favorable for the disease. This gives us another proof, of how we shall meet this disease. As I have said before it can not be cured with a medicinal prescription, being parasitic, it lives on the plant, lives on the same substance that the plant takes up through its roots from the soil to build up its structure, the nourishment

is the same for both, and consequently, what will kill the parasite, having its growth entirely in the tissues of the leaves, will injure the plant, if not kill it also.

We do not know where the germ of this minute microbe, only discernable by a powerful microscope, comes from, we only know it is about, ever present. We are powerless and have wholly to depend on the natural resistance the plant exercises. So I say again the only remedy lies in a strong healthy growth, to enable the plant to make this resistance; and otherwise make the atmosphere as uncongenial to the germ as possible in the houses, and interfere with its entrance into the leaf by keeping the same dry.

In the rust we have a more tangible form of disease; parasitic, it has its seat also in the tissues of the leaves and stems, the germ entering from without but the plant can not so well resist its growth. While we find bacteria in the young growth, rust develops in the matured leaves, the hardening of the tissues is no resistance as with the bacteria; it waits not for a check or soft growth of the plant, it attacks a healthy strong growing plant just as well, and is in this point more dangerous than bacteria. On the other hand as I said before it is a more tangible form of disease. There is a separation of the germ (spores or seed) from the rust plant, we know, we can see where it comes from, and in this visible separation lies a chance to kill this germ before it finds another location to form a new plant. So in this point, rust is less dangerous than bacteria. We may sum up the two diseases both being parasitic as follows: Bacteria grows from a germ ever present in the air, we do not know where it comes from; but the plant when in full vigor has the strength to resist its ravages, and we are also enabled to make it more difficult for the germ to enter the leaves. Rust grows from the spores, emitted by the mother plant. The carnation plant can not resist its ravages as well as with the bacteria, but there is a chance to destroy the germ or spores, check the disease, and eventually in time exterminate it. Bacteria is easier to be handled and less dangerous to a careful grower, for all the care he exercises to prevent bacteria will only tend to improve the quantity and quality of his flowers; while the remedies used to destroy rust can not but have a retarding influence on the carnation plant. To a careless grower one is as bad as the other.

The warm moist weather we have of late is rather hastening the carnations on too fast in the houses, and will soon show bad effects. But as early planting in the field of the young stock is of great benefit, this should be taken advantage of and young plants strong enough should be out by this time, to gain a good hold of the soil before hotter weather sets in.

FRED DORNER.

Carnation Ivory.

Some blooms of this new carnation were recently received from the originators, Hancock & Son, Grand Haven, Mich. We were very favorably impressed by this variety on former occasions, and the blooms now under notice strengthened this impression.

There is something very distinctive about the shape of the bloom, giving it marked individuality, which makes it easily recognizable from other varieties. It makes a very graceful appearance in a vase.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Smilax, Violets, Etc.

A number of questions from Swampscott, Mass., is referred to me, and like Sandy McTavish's sermon which he delivered in Drumtochty, I will divide them into several "heads."

SMILAX.

"I do not succeed in getting four crops a year. Does fumigating injure it? I have large roots a year old and some seedlings. Should the roots be divided? They are at a standstill; can it be grown out of doors?"

It is useless to expect four crops in one year unless you have a steady heat of 60° to 65°. Don't bother with old roots; throw them away; seedlings are raised so easily and give so much better results. Seedlings are sometimes planted out about June 1, and sold in the fall for planting in beds in the houses. To me they are very undesirable, and you have lost three months' growth inside, during which time the plants inside would have made a fine string. I have seen the tips of smilax burnt with tobacco smoke, or rather the hot smoke, but a moderate fumigating, strong enough to kill the aphid, will do no harm to smilax. To produce four crops in the year strong young seedlings that are filling a 3-inch pot should be planted in the bed as early as possible in July. You will cut a good string in September, again at the holidays, another early in April and another by end of June. A great mistake is made by people who grow only a limited quantity of smilax by dodging all over the bed to cut the best strings. You should, when the bed is fit to begin cutting, start at one end and clear it off as it is cut, for then you can give the proper treatment to that part that is cut and to that which is still standing. Red spider is the great enemy of smilax, and daily syringing will help it in every way.

VIOLETS.

"Will any violet be profitable through the cold weather in a protected frame, but without heat? My Lady Campbell bed is in full bloom now, April 10, but I have not cut a blossom all winter. Does fumigating hurt violets?"

New England will not do for violets in a cold frame in winter. We hear of them being profitable in New Jersey in cold frames, and perhaps in southern New Jersey, which is a very different climate from Massachusetts. I know of no violet that would flower profitably without heat in the latter state. No wonder you are picking a fine lot of flowers now; they have been dormant all winter, and as we are near the natural time of violets flowering you should now have a grand burst of bloom. It pays any florist to have a frame of violets for spring. They get small and odorless in the houses after April comes in, and you may also want the benches badly for other stock, and then your cold frame violets come in mighty convenient. I have never seen any harm done to violets by a judicious use of tobacco smoke. They should need little of it unless you have other plants in the house to which aphid is attached. Pansies will besure to have plenty of greenfly, so keep them out of your violet house. They need more heat anyway to be profitable in winter than the violets.

NEPHROLEPIS.

"Will nephrolepis grow in a temperature of 45° to 70°, with about three hours' sunlight? Does fumigating hurt this fern? What reliable ferns for cutting could be grown under these circumstances, and how about the tobacco smoke?"



VIEW IN THE STORE OF MR. C. A. DARDS, NEW YORK.

What a range of temperature; it carries one almost from the glacial-fed yellow waters of the Yukon River to the delta of the Mississippi. *Nephrolepis*, one of the most useful ferns (perhaps *tuberosa* or *exaltata* is meant) we grow, would thrive well in winter in a night temperature of 55° to 60°; if hotter perhaps would grow faster. Mild fumigating has no effect on it. Of all the ferns for cutting the genus *adiantum* has no equal, either for beauty, usefulness or easy culture, and *cuneatum* and its several varieties are best. There is still room for more growers of *cuneatum*. The young fronds are easily destroyed by tobacco smoke, and unless they can be thoroughly covered when smoking the house should be removed. Other methods, such as evaporating tobacco extract, would I think be harmless. The *nephrolepis* will thrive with little sunlight, but should not be too dark.

SOIL LACKS ADHESIVENESS.

The same correspondent says his soil takes too much water. It is described as being one-fourth "cow dressing" and three-fourths sod. This is good mixture and would suit a large class of the commercial florist plants. "Is this all right for violets and carnations, and how much bone meal should be applied to a cord of the compost?" I have never used bone meal on violet benches, and don't think it desirable. You see violets a failure in many different kinds of soil, and you see them flourishing in as widely a

different soil. The trouble is seldom with the soil, but atmospheric and otherwise, and the latter word covers an immense territory.

Bone meal is of the greatest help to carnations: of that I am very positive. I have used a 4-inch pot of bone dust to an ordinary wheelbarrow of soil with the best of results, and that with soil that was without a particle of animal manure, and had been for 7 or 8 years. Our inquirer complains that the soil does not "hold water." "The water runs through, and so it is constant watering." That's just what you want; you don't want soil that will hold water. If water hangs on the surface of the pot or bench there is something wrong. It is possible that the compost described may be too sandy; if so add a stiffer soil. There are perhaps thousands of inexperienced folks in this country calling themselves florists who don't realize how firmly a plant should be potted or well pressed down the soil in a bench should be. WM. SCOTT.

After Easter, What?

Competition and low prices have so reduced the profits in every line of greenhouse work that it is no longer possible to make a fair year's profit on the returns from six, eight or ten months. In most establishments, nowadays, it takes twelve well occupied months to ensure a reasonable return on the investment and the grower of plants or flowers finds it

necessary to look carefully ahead and be fully prepared, as soon as one crop is out of the way, with another to take its place and thus keep his houses constantly at work. Monday after Easter comes, and looks in upon the houses stripped bare of the gorgeous display of a few hours before; what are you going to do with the vacant room? We asked Mr. J. M. Keller of Bay Ridge, N. Y., this question. This gentleman is one of the most successful of the large growers of Easter plants for the New York market. Mr. Keller sends us the following reply:

"The question of how to utilize greenhouse space immediately after Easter is, to a good many of us, a very important one. In establishments where spring stock is grown it is easily solved, a houseful or two of stock grown for that purpose and kept until Easter time in small pots and at close quarters, will, if properly shifted and given the necessary room, occupy five or six times its former space. With proper treatment this stock ought to be salable by the latter part of May. I have also seen such space utilized for a crop of sweet peas; the plants had been grown in pots and kept in a well protected frame. They were planted out immediately after Easter and the result was very gratifying in dollars and cents. In my own place but little spring or bedding stock is grown. Easter being over, we generally give our empty houses a good overhauling. Painting, glazing and general repairing is in order. At the same time we

begin to fill up again by shifting and repotting palms, dracaenas, pandanus, etc. etc., and it is astonishing how soon every inch of space is occupied again. Of course for the last couple of months before Easter, palms and decorative stock take a back seat, and are crowded together pretty well; probably this stock gets a little more room than what is absolutely necessary right after Easter, but it does not take long to fill out. Take it all in all I believe, however, that a crop of bedding stuff judiciously handled after an Easter crop gives the best and quickest returns for by far the majority of the growers."

Mr. James Dean, who also devotes a large space to Easter plants, makes use of his houses after Easter for cannas. He finds little profit in late grown bedding plants for spring sales. Jas. Weir & Sons, who do a large retail plant business, especially for cemetery trade, fill their houses at once after Easter stock has been cleaned out, with spring bedding plants, following these up with chrysanthemums, after which stock for the next Easter is in order again.

Several growers recommend cucumbers as a good crop to fill in between Easter and the chrysanthemums. The cucumbers are started in pots and by Easter have attained a good size, and are then planted out in the benches. The soil for the cucumbers is made very rich and after these are done is just right for chrysanthemums.

Fern Notes.

Aspleniums: It is those of the "bulbiferum group" which are most extensively grown for our London florists' trade; though there are some others well worthy of attention. It is not necessary to give a long list of varieties. Taking those referred to above the normal form of *A. bulbiferum* is one of the best, and as it produces the bulbils freely it is easy to propagate. *A. biforme* has longer and more drooping fronds, and being equally prolific is the greater favorite of the two. There are several slight variations of this, the best form has pale green fronds growing more erect, and drooping over sufficiently to give the plants a most graceful appearance. *A. flaccidum* is the most useful for suspended baskets, the long drooping fronds are of good substance. *A. feniculacum* is another good species, with finely cut fronds. *A. laxum pumilum* is one of the most popular. It makes a most symmetrical plant; the dark glossy green fronds are finely cut. This does not produce bulbils so freely as those referred to above, but as stated in a previous note, it always makes a higher price in market. *A. viviparum* and its variety *nobilis* are both very pretty in a small state, but are not likely to become useful market ferns.

Of those which do not produce the bulbils, *A. lucidum* is one of the most useful; this has broad pinnate fronds of great substance and the surface is a bright fresh green. It is rather slow, but when once established it keeps in good character for a long period, and is most serviceable for almost any purpose. It is only from spores that this can be propagated, and it requires great perseverance to get a good stock. I have succeeded in raising seedlings, but have had many failures. The spores must be taken just at the right time, and should be sown as soon as sufficiently dried. Under the most favorable circumstances they are very slow and several crops of other free growing sorts will generally spring up before the true sort appears. With a little



DRESSED EASTER PLANTS AT HODGSON'S, NEW YORK.

experience these fern-weeds may generally be detected by the shape of the prothallii, and should be carefully removed.

A. cicutarium is rather a small growing species with finely-cut erect fronds of a pleasing shade of pale green; there is not much difficulty in getting this from spores, and it may be included among those worth growing for using in a small state. *A. Pteridioides* is a very distinct species, but like *lucidum* it requires some perseverance to get up a stock. I have raised seedlings and among them have had some good varieties but have not yet succeeded in getting further stock of these varieties. *A. novæ-caledoniæ* is worthy of mention, the branching fronds have narrow pinnules of a deep olive green. There are several varieties intermediate between this and *Viellardi*, which has broad pinnæ. I will conclude the list with *A. longissimum*, which is a fine fern for suspended baskets. I have seen this with the long drooping fronds fully eight feet long, there is a variety *caudata* which has the pinnæ deeply lobes or serrated. These produce one young plant near the point of each frond, they will grow to a good size before they are removed.

As previously stated it requires some perseverance to succeed with spores. The fronds for spores should be taken from well-matured plants. I find in many instances that spores saved from old plants germinate better than those collected from younger plants. And there is also an advantage in saving from such as have been grown in light airy positions. After the fronds have been dried sufficiently there will usually be found some good spores in the packets which have dropped out. Not much good is got by rubbing up the fronds as this only gives a lot of rubbish from the spore cases. For aspleniums I like to use a little fine peat for the surface of the pots. When taking the seedlings out the seed pots should be kept for some time, as the first or even the second crop may prove to be something else. The seedlings are very slow during the early stages of growth, but after they are large enough for potting off they soon make headway.

Those propagated from bulbils may be treated in the same manner as fresh pricked off seedlings. I find loam and peat in equal parts with a good sprinkling of sand added suits the aspleniums in a young state, and for potting later on,

some leaf mould and manure may be used. The compost should be used in a rough state, and plenty of drainage given. They delight in a rather shady position but should not be grown under the shade of other plants. While growing they like a moist humid atmosphere but should never be over watered at the roots. Manure may be used after the pots are well filled with roots. Most of the aspleniums make symmetrical plants in quite a small state, but it is plants in 6-inch pots which are the most serviceable. One great recommendation is that they keep in good character for a considerable time. Of course they require a little hardening off before they are used for decoration. A little more exposure to the sun and air will make them finish off a brighter shade of green and also make them more serviceable.

CYRTOMIUMS.

Botanists now include these with the aspidiums, but I think it far preferable to retain the old name for all trade purposes. There are only three distinct species usually grown, *C. caryotidium*, a very distinct fern of strong growth, has broad pinnate fronds of a pale greyish green. It is most effective in a young state, and to make nice plants they must be grown on freely without receiving a check in any way. As soon as the plants get stunted either by age or neglect, they have a very untidy appearance. *C. Fortunei* (known also as *C. anomophyllum*) is of more erect growth; the rather long narrow pinnæ are of a bright fresh green when young, but with age they have rather a dull appearance. *C. falcatum* is the most popular of the group, indeed, it is one of the most useful ferns grown for decorations. There are several distinct varieties of this. The normal form has twisted pinnæ, and the fronds grow nearly erect. The best variety, known as *Fensomi*, has more spreading fronds, the pinnæ are very broad; the terminal one being of extra size, and deeply cut down into narrow segments, the fronds have a flat surface, and are of a bright glossy green. This variety may be recommended as a most effective fern either for a 5-inch pot, or for growing on into larger specimens, and there is always a good demand for well grown plants. It is not so generally grown as some ferns, but those who do succeed with it grow very large quantities.



DISPLAY OF EASTER PLANTS IN HODGSON'S SHOW ROOM, NEW YORK.

Culture: The cyrtomiums all produce spores abundantly, and if collected at the right time they germinate freely. The fronds should be taken as soon as the first spore cases begin to open, otherwise the best spores will be lost. The seed pots should be placed where the sun does not come on them, but where they get as much light as possible. They also do best in a cool house, being much more liable to damp off when placed in a high temperature. The seedlings should be pricked off in small patches as soon as the prothalli have well covered the surface of the seed-pots, and later on they should be divided again. Cyrtomiums make the most symmetrical plants when grown singly; but where good bushy plants are required three or four seedlings may be grown on together.

All the cyrtomiums like a good loamy compost. I find good yellow fibrous loam with a little manure added suits them well. Young plants may be grown on in heat, but they will do equally well in a cool house, though of course they do not make plants so quickly. They do best when grown on a cool moist bottom; being very liable to the attacks of thrips a dry atmosphere should be carefully avoided. For making good plants for early spring use they should be grown on in cool pits the previous summer, and confined to rather small pots. If kept just above freezing point during the winter, they will start away quickly if potted on and placed in warmth early in the year.

Although cyrtomiums do not realize high prices, they are profitable to grow, as they always find a ready sale and it does not take long to establish good plants when treated well.

GENERAL NOTES.

When the kentias and other palms first began to come to the front in quantities it

was anticipated that the trade for ferns would diminish, but far from this being the case; for at the present time they are more in demand than ever. I remember when only a few years ago you would not find half a dozen fern growers represented in Covent Garden Market. Now almost every grower who has a bit of glass goes in for growing ferns and they all seem to go.

Although we have very considerably extended the area devoted to ferns it has been as much as we could do to keep up a sufficient supply for our trade during the past winter. The prices too for really good stuff keep up well though since so many have taken up ferns, a lot of inferior stuff finds its way into the markets. The trade for palms has been equally good, more especially for well grown Kentia Belmoreana, this is undoubtedly the favorite palm of the day. Good Cocos Weddeliana are also in demand, especially medium sized plants. In 1894 very little good seed was to be had, and we begin to feel this now. A. H.

Salary of All-round Man.

What is a man worth who manages a business of about 5,000 feet of glass, 8 acres of land, attends everything in person, does all the repairing on greenhouses, dwelling-house and outbuildings, makes improvements, propagates about 50,000 plants, keeps the books and does the outside customers' business, without any help except the aid of night man while attending to the fires? W. F.

W. F. must be a daisy if he can do all this himself. I think he will soon make work scarce, and assistants for the florists' business, jobbing carpenters, glaziers, painters, bookkeepers, etc., will have to turn their attention to some other lines of business, for possessing the qualifica-

tions to fill all those positions and the ability to execute them all in addition to attending to the wants of outside customers and stoking fires at night inside, he must be a bonanza. Anyone having such a gem in his employ will of course fully appreciate him and guard him so carefully that he can never get away either by fair means or foul, coaxing or cuffing, kindness or kicking, should never allow them to part company. We have heard a great deal of late years about evolution, but this outstrips all we have ever heard of in that line, and with a few hundreds of such able and willing men the florist business can soon be brought down to a very fine basis. Such men of course will receive correspondingly high salaries. To raise and grow 50,000 plants, which at a low estimate should be worth at wholesale 3 cents each or \$1,500, repairs to greenhouses, 5,000 feet of glass, would probably cost \$10 to \$12 per year; to dwelling house—well this is an unknown quantity, as many dwelling houses are kept in repair for \$2 or \$3 per year for several years in succession—the outbuildings may possible be in rather bad repair and need say \$5 to \$10 per year to hold them together. About the eight acres of land, that is also somewhat guess work, as it may be in grass or other condition. If the former a crop of hay of say eight tons, more or less, may have to be made and cared for in July, if in the other condition—well I cannot form any idea what labor it may require. About the improvements it seems rather puzzling to form any correct basis of calculation without further facts in the case—for instance I have known some men to think they were improving time by leaving a gate open to save themselves the trouble of shutting it each time they had to go through, and by adhering to such methods of improvement allow

the neighbors' goats, pigs, etc., to ramble all over the place, gathering up all the stray tin cans, digging up the potatoes, etc. This of course is rather an extreme case of improvement, and I do not infer that W. F. means anything in this line so radical, but as the word has such a wide scope, from the leveling of a barrow-load of soil to making a good road, or nailing up a broken fence rail to building a new barn—anything between these points may be and really is an improvement, but without knowing what they are we cannot form any correct estimate of the value of them.

The bookkeeping must be considerable on such a place, and the doing of the outside customers' business means a very trying thing, for one can form no idea what their business may or may not be. In conclusion I would advise W. F. if he has such a man in his employ to treat him fairly, pay him what the business will afford after careful calculation of the net income, after deducting interest on investment, coal, pots, manure, and the one hundred and one other items which go to make up the expenses of running greenhouses. After all these things are carefully computed then divide your profits by paying him all that you can in fairness to yourself and family, and as he is undoubtedly as bright mentally as he is physically he will see at once that he is being fairly and honestly treated and put forth still greater efforts to excel.

JOHN N. MAY.

Piping.

I desire to build a greenhouse 100 feet long and 19 feet wide, and heat same with hot water, using a common tubular steam boiler for heater. The sides will be 4½ feet high double boarded with row of sash under south plate; sash bars 12 feet long; house running east and west with shed on west side for heater.

I cannot excavate for pit on account of water, therefore will have to pipe the house as described by A. L. Shriver in AMERICAN FLORIST of March 21. I desire to partition off 25 feet on west end of greenhouse for a temperature of not less than 60°, the balance of the house to be used for carnations. A windy exposure, and temperature frequently reaches 15° to 18° below zero. Please arrange size, number and location of pipes for me.

SUBSCRIBER.

He will need seven runs of 4-inch pipe in house of the dimensions given; one 4-inch overhead flow and six returns. This should give a temperature of 55° to 60° when outside temperature is 18° below, with average water temperature 180° in pipes.

If wrought pipe are used enough extra runs will be required to make the same amount of radiating surface, viz.: If 2-inch be used, fourteen runs; two overhead flows and twelve returns. If 1½-inch pipe be used for returns it will require sixteen returns. If wrought pipe be used would prefer the 3-inch as there is less friction to circulation and it will contain double the volume of water that 1½-inch does and as a consequence needs less attention than any of the smaller sizes. In this respect the 4 inch is preferable, having four times the volume of 2-inch, and double the radiating surface, but more labor is required in construction when using the 4-inch cast iron pipe.

The overhead flows should be run level the first fifty feet, then down one inch to ten feet, and as near to ridge as ventilating apparatus will allow. If two 2-inch flows are used, run parallel and supply-



EASTER DISPLAY AT J. H. SMALL & SONS, NEW YORK.

ing their respective sides, when flows reach far end of house drop to returns under benches or on walls, whichever mode of placing pipes be used; if pipes are on walls (as they should be) angle from flow direct to returns; if 4-inch flow be used drop perpendicular to level of returns, branch each way to returns; the grading on all returns not less than one inch to ten feet.

For heating the twenty-five foot room on west end to not less than 60° I would advise two extra runs of 4-inch pipe, or an equivalent if smaller pipe be used, and would have them all independent of east end of house, the same as if two separate houses were being piped; this can be done by connecting all returns into one upon reaching partition, then by duplicating piping in east end he will have the two extra pipes in west end. The supplies for west end can be taken direct from main flow by tapping on sides with suitable valves placed in each supply to control circulation; or still better to run a separate supply direct from boiler.

If boiler has not been tapped for hot water work would cut a 4-inch hole in bottom midway between bridge wall and rear end, top hole directly over grate same size, use cast flanges threaded for 4-inch wrought pipe, bottom of flanges cast same curvature as boiler, use a lead gasket made from sheet lead of eight pounds thickness under each flange, bolt flanges on with six ½-inch cap screws, then with a calking tool calk around flange on lead gasket and it will make a tight joint; the wrought pipe will calk into bell of cast iron pipe the same as if cast iron.

I believe I have covered all the ground; if subscriber wants further information he may feel himself at liberty to write me. Hoopston, Ill. A. L. SHRIVER.

Changing Plan of Greenhouses.

Replying to your correspondent W. F., St. Paul, who wishes to change two small 10-foot houses into one 20 feet wide by means of a hipped roof, there is nothing to prevent him from constructing it as proposed, but are the advantages to be gained equal to the evils of such a structure? First the proposition to put

ventilating sash on the lower side of each hip will give him a great deal of trouble to keep the rain from washing in at every shower, and it will be necessary to devise a plan to divert the water running off the upper part from the tops of these sash. While this can be done by raising the sash above the other glass and forming a drip at the header, yet it will be a clumsy looking affair at best. Then the flat piece or upper part of these hips will be a place for snow to lie in bulk with but little chance of its melting off, and in case of a heavy snow would be very apt to carry some of the glass through on such a flat roof. Furthermore, being so flat, it would very hot on warm days without any ventilation at the center or highest point.

If W. F. is not afraid of shading other houses I should advise him to raise the roof considerably in the center and put the ventilation opening from the center ridge plate instead of on the lower hips as proposed. This would probably raise the house at the ridge 2 to 2½ feet above what W. F. proposes, but it would make it a much better house for all practical purposes, and although it would take probably 200 feet more glass, the construction would be considerably less, as it would be straight lines from the gutters to the ridge plates, and for growing plants it certainly would be much better and the temperature could be more evenly regulated.

From what little I know of the winters in the section of the country where W. F. is located I should think twice very seriously before building a house such as he proposes, and unless there was some very important reason for so doing it I would not do so at any price. But possibly there is some particular reason why your correspondent wishes to build in this particular form. In that case he should take every precaution possible to protect the headers at the top of the ventilating sash from leaking. To do this it might be necessary to form a small gutter above each sash to divert the water. But no matter how he decides to build it is very important that the center columns should be quite sufficient to carry any weight which it might be called upon to bear,



EASTER DISPLAY IN FLEISCHMAN'S WINDOWS, NEW YORK.

otherwise the house would spread badly, which in turn would lead to trouble with the ventilators, etc.

Possibly W. F. thinks that the proposed flat roof would enable him to keep his plants nearer the glass, and thereby gain some advantages. This in practice is not so, as the little additional height of the ridge with light from both sides would be fully equal to the other, and with the consideration about snow and rain taken into account it would be a great advantage on the score of light in winter and better ventilation in summer, hence better adapted for plant culture all around.

JOHN N. MAY.

Oak Posts.

How long will black and yellow oak posts last if cut now and used in June for greenhouse building, the posts to be 7 to 8 inches in diameter, and will it pay to use these posts?

R. H.

My experience with oak posts for greenhouse building has been that it does not pay to use anything in oak except what is known as clear *white* oak. These if fairly well seasoned will last from 10 to 15 years in most soils, though in a light sandy soil they do not last so long as in clay soil, while all other kinds of oak with us have to be replaced in five or six years at most. All the farmers to whom I have ever mentioned this matter always say they will not use anything but white oak for posts for fencing as it does not pay to do so. Where other oak has been used in this section, from want of knowledge of its value, I have never known of its lasting over six years, and more frequently it had to be replaced in less time.

The best post for greenhouses is first young sound trees of yellow locust, next red cedar and cypress, white oak coming next, with good sound chestnut in some soils. Here the last named, on a clay and

gravel soil, is hardly worth using. Yellow pine, if it can be had with plenty of pitch in it, is a good post, but if there is any sap in it, that will be rotten in two years. If yellow is used the greener it can be had the better. Old, dry, seasoned yellow pine, even with plenty of pitch in it, is of very little value for this purpose. At least such has been the experience of

JOHN N. MAY.

Cycas Revoluta.

How should the dry stem of *Cycas revoluta* be treated, and what soil should be used?

SUBSCRIBER.

Dry stems of *Cycas revoluta* should be potted at once when received, the most satisfactory soil for the purpose being good loam of rather light character, to which has been added a sprinkling of bone-dust. Some drainage material should be used in the pots, and the stems firmly potted to a depth of at least one-third of their length, using as small pots as the size of the stems will permit. For example, stems weighing from two to four pounds can be readily potted into 6-inch pots, while those weighing five to ten pounds usually require 7-inch or 8-inch pots. A good watering should be given after potting, and the cycas should then be placed in a warm house, a temperature of 70° to 80° usually starting them in a few weeks, but occasionally a stem will be found that only produces roots the first season, in preparation for a stronger start the second year.

Shading will be needed to protect the tender young leaves, for they are very easily injured while unfolding, and it is essential at this period particularly that the plants should not suffer from dryness, else the leaves will be crippled. After the leaves are fully developed the plants should be removed to a cooler and more

airy house, a temperature of 60° being then ample, but to retain the deep green color of the foliage it is still advisable to shade somewhat during the summer.

W. H. TAPLIN.

Cytisus Andreanus.

In your issue of April 4, you have some valuable information as to *genistas*. Your remarks are, however, confined to *G. canariensis* and *G. racemosa* (syn. *fragrans*). It might prove of value to others besides myself to learn something of *G. Andreana*, which seems now to be the one preferred upon the continent.

G. N. H.

Cytisus Andreanus, sometimes called *Genista Andreana*, is of quite different character from *C. racemosus* and *C. canariensis*, and is a form of the common broom (*Cytisus scoparius*).

C. Andreanus is an upright growing shrub, the flowers of which are deep yellow except the keel, the latter portion being bright red, and is the chief distinctive characteristic of this variety.

The variety in question was found growing wild in Normandy about ten years ago, and is much esteemed as an outdoor shrub in Europe, and is also probably hardy in the United States at least as far north as Philadelphia.

C. Andreanus has been tested to some extent as a forcing shrub for Easter decorations, but has not proved a decided success, the plants being so sparsely covered with foliage that they appeared rather ragged and straggling.

W. H. TAPLIN.

How to Raise Sweet Potato Plants.

Would advise Mr. XX to make a new hot bed, the same as for early vegetables. Instead of using loam on top of the

manure, cover with three inches of sand; then take medium-sized sweet potatoes and press each potato down in the sand lightly and so they will not touch each other; then cover with an inch and a half of sand, keep the sash well closed at night, in daytime ventilate a little, water lightly as the sand gets dry on top and increase the water as the sprouts come up.

The plants will be fit to pull when four or five inches high. When you pull your plants hold your hand on the sand around the potatoes so you won't disturb your potatoes. In ten or twelve days or two weeks a second crop will appear. I should say you would need to plant one bushel to get two to three thousand plants. Start your hot bed now.

ARNOLD STAPPEN.

Charles River Village, Mass.

Cupid Sweet Peas.

ED. AM. FLORIST: In reply to your letter stating that you have had some complaints that Cupid has failed to grow well under glass in winter we would state frankly that we likewise have received similar complaints, in fact in some of our own trials in mid-winter have only had 25% of the seed germinate. The fault is not however, with the seed, as in our own trials, both in the early fall and the past few weeks from 90% to 100% of the seed has germinated. Messrs. Hurst & Son, our London agents, likewise report that the seed grows fully as well for them.

Below we give you in full the circular which we issued in February to answer inquiries received from our own trade. [That part which applies to failure to germinate is as follows.—Ed.]

From our own experience both at Fordhook and with several florists, we find the seed requires a good deal of warmth to germinate readily. We would not advise planting in an ordinary window garden until well along in March, when there are plenty of sunny days. Our customers, of course, must take into consideration the mid-winter is the most difficult season in which to start seed of any kind, as the aid of nature is then almost entirely lacking.

We have to-day mailed you under separate cover 20 packets of Cupid and would request that you give these to some of your leading florists, as we are sure that the germination and growth now would be perfectly satisfactory. We would be pleased if the publishing of this letter in the FLORIST should bring forth expressions of opinion from others as to just how to grow Cupid as a pot plant in winter. Yours truly,

W. ATLEE BURPEE.

Phalænopsis Schilleriana.

The illustration shows a corner in the Phipps Conservatories in Schenley Park, Park, Pittsburg, Pa., with a plant of *Phalænopsis Schilleriana* (moth orchid) bearing ninety-six blooms, grown by Mr. Joseph Spring, foreman of the conservatories. The plant is a side growth of one cut down by the memorable hail storm of '93 in the greenhouse of Mr. Thos. Mayberry. The color of the flowers is a very fine pink, much darker than the blooms on the plant having 102 flowers, noticed some time since. It has been universally admired. REGIA.

Sweet Peas.

In answer to O. O. I would say that my sweet peas are in full bloom since the first days of this month. I don't mean to say that I am ahead of anyone but they have been grown outside without any protection. M. M. LAPOUYADE.

New Orleans, La.

New York.

Flower receipts have been considerably reduced in bulk during the past week and the relative balance between supply and demand has been more evenly maintained. There has been increased activity in the large retail stores owing to the number of weddings, receptions and other occasions requiring the use of flowers. In the wholesale establishments business has been running more smoothly on account of the decreased receipts, but there is still much more stock, especially of the commoner grades, than can be disposed of in a legitimate way, consequently the street men have things generally in their favor and wherever there is found a surplus of stock there also will be found a horde of jabbering Greeks and it takes close watching and sharp practice to keep up even with this disturbing but apparently indispensable element. The quality of the roses now coming in is below standard generally.

Taking into consideration the average of quality, quantity of cut and regularity of demand for the past season it would appear that Bride and Bridesmaid are still the leading varieties for this market, and will no doubt be planted as extensively as heretofore for the coming season. The quality of young stock seen at the various establishments appears good, and many growers will be ready to plant earlier than usual. Hybrids have not taken their usual prominent place in the spring trade, that is with the exception of Brunner; this variety holds its popularity and not only makes it uphill work for the other hybrids but also for Jacq and American Beauty when at the height of its season. American Beauty has puzzled its growers worse than ever this season, the number of unproductive houses being unusually great and the proportion of abortive blooms in the wholesale market discouragingly large. Beauty growers are plucky, however, and one seldom hears of one willing to quit his favorite variety even under continued adverse fortune.

One of the most effective pieces of flower work seen this season in New York was a funeral pall of smilax thickly studded with lily of the valley, a wreath of dark bronzy galax leaves and Meteor roses, the latter massed on one side of the wreath, being placed in the center. The wreath was tied with broad white ribbon.

Walter F. Sheridan is moving to his new wholesale store at 39 West 28th street. Walter is extremely popular with his associates in the wholesale trade and his advent on this hustling thoroughfare will be greeted with the utmost cordiality from the trade already located there. 30th street is not yet left desolate, though, for it still boasts seven wholesale cut flower establishments.

Out door planting of the hardier bedding plants is now at its height. Pansies and English daisies are seen massed in beds, baskets and vases in parks, front areas of the hotels and public buildings and in window boxes in the residential districts.

On and after May 1, C. H. Joosten will occupy the fire store and basement at 193 Greenwich street. Its close proximity to the ferries and elevated railroad stations make this the ideal location for Mr. Joosten's trade.

At a recent wedding in St. Agnes Chapel a very effective decoration was made in white and pink, longiflorum lilies and pink hydrangeas being used, with palms as a backing. The center aisle was

an avenue of tall kentias, the pots being covered with white crepe paper tied with satin ribbon. At either side of the church were groups of specimen palms of a large size. The rood screen was banked with lilies, large clusters at each end, those next the aisle being tied with wide white satin ribbon. Hanging between the bunches of lilies was a thick garland of hydrangea. The choir stalls were also wreathed with hydrangea flowers. The altar and altar rail were banked with lilies; while large palms and tree ferns made a most effective background to it all. Sieb echt & Wadley were the decorators. S. M. T.

Pittsburg.

The Florists' Club did not hold a business meeting on Thursday night, 23d inst., but instead devoted the evening to making a success of the banquet and reception tendered the new superintendent of Schenley Park, Mr. Wm. Falconer. The room was very handsomely decorated with palms and foliage plants furnished by John Bader, while the tables, four in number, arranged so as to form a square, were decorated with choicest specimens of flowers. John L. Wyland sent roses, Brides, Bridesmaids and Mrs. Pierpont Morgan; Fred Burki, Brides, Bridesmaids, Meteors and Perles; Theo. F. Beckert, bougainvillea, Helen Keller and Buttercup carnations, amaryllis and sweet peas; E. C. Ludwig, lilies and white lilacs; Gustave Ludwig sent Albertini carnations and bougainvillea. These were beautifully arranged in elegant jardinières and vases furnished by Randolph & McClements. Mr. Henry H. Negley, chairman of committee, in a very appropriate address, welcomed Mr. Falconer, who responded in an interesting reply, expressing his pleasure of the reception and highly appreciating the honor of meeting the representative florists of this section. He also spoke with pride of Schenley Park and the great possibilities its future holds, as the natural advantages it possesses are fully equal to if not greater than any other park in the country.

Mr. E. C. Reineman, president of the club, then introduced each member to Mr. Falconer, after which all were seated, to the number of 75, and enjoyed the good things of the season served by one of our leading caterers; after full justice had been done the tables were cleared, cigars, etc., passed around. Mr. Negley, acting as master of ceremonies, addresses were made by President E. C. Reineman, James Dell, John Bader, W. R. Watson, A. F. Dalz II, M. C. Dunlevy, Fred Burki, J. R. Murdoch, P. S. Randolph, Alex Nelson, John Herron, J. Ludwig, Ernest Maver, O. A. C. Oemhler, E. C. Ludwig, Geo. Oesterle and Mr. Falconer, who feelingly mentioned his acquaintance with the late Mr. Bennett, having known him, his father and family for many years, and saying that the welcome extended so heartily by the florists' club was but a repetition of the welcome that he and his family had received ever since their arrival here. He wished to be considered one with us and would most certainly become a member of the club. Mr. Fred Burki, seconded by Mr. M. C. Dunlevy, moved that the cut flowers used in decorations be donated to the different hospitals of Pittsburg and Allegheny and to the Fruit and Flower Mission; carried unanimously, and Mr. Henry H. Negley kindly volunteered to see that they would be delivered as desired. About twelve o'clock the meeting adjourned, everyone well satisfied with the way in which the committee,



PHALAENOPSIS SCHILLERIANA AT SCHENLEY PARK PITTSBURG.

consisting of H. H. Negley, Sam'l McClements and Geo. W. Burke, had conducted the reception intrusted to their care.

Trade has not improved any during the past week, the weather being too warm and not many social functions going on. Funeral work has helped several to keep things moving, and all are patiently awaiting an improvement in the demand.

Elliott & Ulam secured the decorating at the banquet given by the Americus Club on the 29th in honor of the birth of Gen. U. S. Grant, at the Monongahela House, and the decorations sustained the reputation of this firm for effective work.

Mr. Julius Ludwig contracted for the planting of the park at Indiana, Pa., belonging to the West Penn. Division of the P. R. R., also at Homer City. He expects to show something very fine.

Mr. M. C. Dunlevy of Carnegie has settled with the Gas Line Co. for damages to his greenhouses and stock at the recent explosion. The satisfactory adjustment, and without delay too, is very creditable to all concerned, and especially so as to Mr. Geo. W. Burke, superintendent of Highland Park, who appraised and whose award and judgment was acceptable to both parties concerned. Mr. Dunlevy's son continues to improve, and Mr. Paul Andrew (not Bruno, as I had it previously) is considered out of danger. A settlement of their damages will, it is hoped,

be as promptly arranged as those of M. C. Dunlevy were.

Mr. Gus Ludwig, finding his stand in the Allegheny Market too small, has rented a basement room 75x20 on South Diamond street, and will fix it for a work and storage room; this will enable him to carry stock of plants, etc., which is impossible at his other stand.

Elliott & McGinnis report a very satisfactory trade in seeds. This is their first season as a firm, although well known as formerly connected with the B. A. Elliott Co. Their cut flower trade is like the rest, a little slow at present.

A visit to Highland Park last Sunday well repaid the exertion of getting there. It was a sight worth seeing, a grand outdoor display of tulips and hyacinths. Supt. Burke had planted nearly forty-five thousand of these, and they were in their prime. A very large number of people visited the display, the weather being simply perfect that day. REGIA.

Boston.

Spiraea Anthony Waterer was exhibited by R. & J. Farquhar at Horticultural Hall on April 25. The plants were in small pots and were in profuse bloom. A certificate of merit was awarded. From the same exhibitors came a plant of a new *silene*, *S. pendula* Amalia, bearing deliciously fragrant pink flowers. It

received a complimentary notice. The usual large Saturday display of cut flowers was missing, there being but a few exhibits staged. Presumably the exhibitor are holding back until next Saturday, May 2, which is the first regular prize day after the spring show and which always brings out a fine display.

The cut flower trade has taken on a better tone, the weather being cooler and the big surplus forced in all at once by the unseasonably hot period having now disappeared, leaving the plants well stripped of flowers. There has been a continued good demand for carnations and extra quality blooms sell rapidly at fair prices. Roses have deteriorated somewhat in quality and violets show plainly that they are drawing to a close for this season. Lilies are quite plentiful and cheap.

E. A. Wood and W. J. Stewart have gone to Cleveland, O., to attend the executive committee meeting of the Society of American Florists.

Cleveland.

The executive committee of the S. A. F. convened pursuant to previous arrangements at the Hollenden April 28, and buckled down to hard work with characteristic grace. The absentees were Waldhart of St. Louis, who was unable, owing to illness, to be present, and Mr. Dawson, who was unavoidably detained. Mr. J. M. Gasser of Cleveland was selected by President Scott to act in their stead.

Among other thing that which most interested local florists was the matter of a convention hall. After a tour of the available buildings the committee selected Army and Navy Hall, but owing to the representations of the Cleveland Florists' Club kindly so far altered their choice as to select in addition the County Armory building, a very large one, which will give ample room for all trade exhibitors, as well as for the flower show, which it is intended will be given by the local florists. This hall is amply lighted overhead by huge skylights, has an inexhaustible supply of committee rooms for all purposes, and in the way of artificial illumination is provided with an abundance of electric light. The location is also very convenient to hotels and business, and is near Army and Navy Hall, which will be used for meeting purposes. Altogether it felt that the committee has done well for us.

Owing to pressure of business at home there was a natural desire on the part of the committee members to get through as speedily as possible, and for this reason the social side of their meeting here was restricted to a tally-ho ride tendered Wednesday afternoon by Mr. J. M. Gasser, and a banquet at the Hollenden in the evening of the same day.

Bright and early Wednesday afternoon the coach drew up at the Hollenden, and the committee and host sallied forth and beheld the splendor of their chariot. The same was elaborately decorated with flowers garlanded on the sides and disposed in available places on the top. Being composed of marguerites and red and yellow Tournesol tulips, the effect was decidedly gorgeous. Each of the gentlemen was carefully concealed behind a particularly large and glowing tulip, and the entire turnout, with its soloist perched on high to wake the echoes, was a conspicuous object as it invaded the peace-precincts of the West Side. On the road out the party stopped for a short time at Mr. Herman Hart's to stretch their legs and accept the kindly hospitality of Mr. and Mrs. Hart. Arrived at the Rocky

River establishment of Mr. Gasser, the party inspected the greenhouses and stock, partook of a most excellent lunch and returned to the city by way of the Lake Avenue Greenhouses of Mr. Gasser, arriving at the Hollenden in good time for the banquet tendered by the local club. The room was beautifully decorated with palms and flowering plants, and the tables, extending down both sides of the room and across one end, were handsomely provided with cut flowers. One of the most noticeable features in this was a number of vases of chrysanthemums, single stem Viviani-Morel, excellent in every respect, from Mr. James Eadie's establishment.

In addition to the out of town guests, Mr. J. G. W. Cowles, the president of the Chamber of Commerce, and Mr. Wilson M. Day, director-general of the Centennial Commission, honored us with their presence. A very pleasant time was spent, the guests in the course of the evening favoring those present with words of eloquence, wit and wisdom that will long be remembered. The assemblage broke up about midnight, and the Cleveland part of it went home firm in the belief that the S. A. F. and its executive department is all right. In fact if the Cleveland florists should have made as good an impression on the committee as they have done on us, how immensely pleased everybody must be with each other! A.

Philadelphia.

The bedding plant men are now loaded up with business, and their teams are kept going constantly delivering orders. There is not much new in this line, the same general stock being seen as in the past few years. Cannas will be largely planted, as will also crotons, when the weather warrants. Crotons, both in the park and at Girard College, where they were to be seen at their best, attracted a great deal of attention.

We believe it would be greatly to the benefit of the trade if the different florists' clubs in all the large cities would use their influence in such a way as to get the proper authorities to set aside a portion of the public parks to be known as the flower garden, and in this section show what could be done with ornamental foliage and flowering plants. It properly planted and kept up this would soon become the most attractive part of the city's pleasure ground, and public opinion would compel the necessary annual appropriation.

Business has been quiet the past week, but about up to the average for the season. The weather has been much cooler, but the expected hard frost that many feared did not materialize. The roses are all getting smaller, and show plainly the effects of the roasting they received. Beauties are much off color, and from \$2 to \$2 50 per dozen is the top figure for the best. Second crop Brunners and Laings look quite well, and bring from \$1 to \$2 per dozen. The best teas are now \$6 per hundred; smaller roses \$2 to \$3. Carnations are plentiful at from 75 cents to \$1.50, and a few extras go slowly at \$2. Sweet peas are in fair supply at from 50 cents to \$1 per hundred. They are not quite so good as they were, being short in the stem.

This is a bicycle age, and the streets are now lined with them all day long and far into the night. The florists have caught on largely, and if they would all get together quite a good sized club would result.

The gunners are having a lively time; two matches last week with organized

clubs. One was on the 23d with the college boys of the University of Pennsylvania, whom they easily vanquished by 34 points, as the following score at 25 targets each will show:

FLORISTS.		UNIVERSITY OF PA.	
W. K. Harris	14	Freed	21
J. W. Colflesh	21	Nelson	9
John Burton	19	Ashbourn	15
A. B. Cartledge	20	Steel	11
Chas. D. Ball	13	Cooper	11
W. Peters	23	Roberts	14
G. Anderson	23	Paul	18
	133		99

It was different in their contest with the Penn Club of Norristown on the 25th, they being defeated by the narrow margin of 2 points. Florists, 153 out of a possible 300; Penn Club, 155.

In the match on Thursday the 23d, the Donaldson medal was won by J. W. Colflesh by a score of 21 and a handicap of 3, making 24. Anderson, scratch man, made 23. K.

Toronto.

The carnation meeting of the Gardeners' and Florists' Association was a great success. The tables were filled with magnificent bunches and single specimens. Mr. Geo. Mills brought large bunches of Lizzie McGowan and Bride of Erlescourt, both very fine, cut as they came on the benches; Miller & Son sent many specimens of the newer kinds; Manton Bros. a big bunch (with asparagus green) of Scott, Portia and Harrison; Spears & Muston also a large bunch; J. H. Dunlop a few Stuarts, very fine; and last but not least Mr. Geo. Hollis brought down specimens of some of his seedlings, some of which will doubtless be heard from later on. Some of them were really immense, and apparently ahead of anything in commerce yet. The association, however, withheld giving certificates of merit to any of these until after having seen further proof of their excellence.

Mr. Hollis read an extremely instructive and interesting paper, concise, practical and to the point. So much has been and is being written on this subject that I forbear to give the whole essay, but some extracts may be useful:

"As to raising new varieties, which a good many are doing just now, I think we make a great mistake in raising seedling varieties from old varieties. I have never seen anything written on this subject, but in my opinion it is of vast importance. Healthy seedlings not showing a trace of disease in their second year I consider most likely to bring the healthy robust plant that we are all looking for. I should not advise crossing in too closely.

"Albertini should be grown rather warm, 55° at night; Mr. Dunlop does this variety very well. Rose Queen, a fine, robust, healthy grower, strong stem, should be grown like Albertini. No one will go far wrong in planting this variety. Peach Blow, similar in color to Rose Queen, thinner and more wiry stem, free flowering. Bridesmaid, extra strong robust plant, very long stem, inclined to come in crops; good for high class trade; 50° at night. Meteor, about same color as rose of same name, a first class variety, very fine stem and flower, should be grown cool. Storm King, very fine white, moderate bloomer, should not be forced. Lizzie Gilbert, one of the finest scarlets, strong grower and very free, should not have chemical or other strong manure or flowers will burn.

"Helen Keller, a variegated variety of great merit, strong stems and large flower, should be grown in an even tem-

perature and not kept wet in winter, the north bench of a long-span-to-south house would suit them best. Alaska, another good white, makes a fine compact plant. Some people object to smooth petals, I consider it extra good. Minnie Cook, variegated in the way of Helen Keller, very strong stem and large flower, has done very well with me. Bride of Erlescourt I expect to see in better shape next year. I have found stiff soil with very little manure suits this variety best. Should be grown on the cool side. Triumph, an improvement on Scott both in flower and stem, very free, one that will make its way. Abundance, a short, sturdy growing plant, large flower, would be good for pot.

"In describing these varieties I have no interest further than a love for the divine flower; it is a special favorite of mine. I have raised seedlings for over twenty years and this year will grow about 2,000."

In the discussion that followed Mr. Hollis thought that no one ought to be much bothered with rust who used the arsenical preparation recommended by Mr. E. G. Hill; Mr. Muston said that he had not found Mr. Hill's formula of sufficient strength to be thoroughly effective.

Mr. E. Worden also read an interesting paper from a strictly trade standpoint. Mr. W. spoke strongly against inside planting.

The weather still holds very mild. I never remember being able to leave ventilation open so much in April before. Out door garden operations are now in full blast. The plant trade is looming up larger and larger every day. Market trade has been rushing. Cut flower trade appears to have started on the down grade, though there is still a large quantity of stuff changing hands. E.

San Francisco.

Business is not what it should be at this season of the year. The demand for some things is very small. This is particularly true of lilies, which certainly are a glut on the market and it is very hard to dispose of them at any price. For several years past lilies have been rather scarce at this time of the year, but so many more were planted this season than on previous ones that they are now a glut on the market. The late sharp frosts have nipped a great many outdoor roses, which were in bud, thereby holding up the prices a little on all inside roses, which so far are holding their own. A few violets are yet to be seen in some of the stores. Carnations are now of fine quality, and specially Scott. Grallert of Colma is sending in some fine yellow carnations which find ready sale. We note some very excellent rhododendrons in the florists' windows, the pure white in particular attracting considerable attention. The late frosts last week have spoiled all soft wooded stuff that was coming along outside, cannas, etc., being nearly all cut down. Some very good Emily Henderson and Mrs. Gladstone sweet peas are being sent in by Mrs. Merriman. Blanche Ferry also can be had. These bring 1.50 per dozen bunches, and many more could be disposed of if they were to be had.

The first spring rose show of the San Mateo County Floral Society takes place in Redwood City, April 30 to May 2. Great preparations have been made for this show, and as nearly all of the wholesale growers for the San Francisco market reside in this county it is to be hoped that it will be a success.

The annual flower show and festival of that charming seaside city of Santa Bar-



A FIELD OF CANNAS AT J. C. VAUGHAN'S, WESTERN SPRINGS, ILL.

bara took place last week. The show was formally opened on Wednesday afternoon the 15th, with a grand flower show in the Opera House. The display of flowers of this wonderful city was very attractive. In the evening there was a promenade concert. The event of the week, namely, the grand floral procession of decorated floats, carriages, carts, equestrians, etc. took place on the following day, and was one of the grandest sights ever witnessed in California, and in no other place could it be duplicated except in California. This was followed by the "Battle of the Flowers" which was truly a novel sight. After this was over flowers were knee deep all around. A great number of visitors from the east and other points witnessed this festival. It may also be interesting to know that Santa Barbara was the first city in this state to originate the idea of flower festivals, which are now so popular throughout this state, there being hardly a city of any size or importance now that does not have its annual carnival.

Mr. Andrew McDonald, formerly with Col. Eyre, has entered the employ of M. Lynch at Menlo Park.

The annual floral carnival of Los Angeles is now under way. The rose show and carnival of the Santa Clara County Floral Society takes place the first week in May in San Jose, and promises to be equal to the fiesta in Los Angeles. The

Santa Cruz festival does not take place until June. In San Jose the public schools had acres of sweet peas planted to decorate the city with during the carnival, but on account of the late dry spring they will not be in bloom.

The outdoor bloom in Golden Gate Park is fine just now. All around the conservatory there are immense beds of yellow pansies, which make a very brilliant showing. Along one of the main drives some immense dracaenas are being planted.

Mr. Chas. Fick, late foreman for Wm. Hale of the Dwight Way Nursery, has resigned his position and is now in Colma.

Mr. W. Morris who has been with the Sunset Seed & Plant Co. for several years has resigned his position and left for the east.

The fine rains that fell the last two days will greatly benefit all growing crops and is likely to bring sweet peas around all right. Also onions, leeks, cabbage, celery and late plantings of lettuce. It will prove a great boon for Cupid, which is a very slow grower. If this warm moist weather continues now after this rain it will be of great benefit, as previously after these rains, cold north winds have set in doing much damage to soft growing crops and drying up the ground very rapidly.

Mr. Benj. Casey, whose life has long been connected with horticulture in Cali-

fornia, died at his home in Campbell, Colo., last week. Mr. Casey began importing plants and seeds into California in the early 50s, and was widely known as an authority on many subjects pertaining to floriculture.

The Los Gatos Floral Society is growing very rapidly in membership, and now numbers over 100. Every month they give an exhibition of some popular flower. The monthly show in April will be of poppies, and it is expected that many new sorts will be brought out. Mr. Culter is now president of the society.

Mr. M. Lynch of Menlo Park spent several days in Santa Cruz last week on business.

Mr. R. E. Evans, the well known florist of Salt Lake City, is spending several days with Mr. M. Lynch at Menlo Park, accompanied by his wife. Mr. Evans was surprised to see the mild weather we are now having, and is also greatly interested in the floral carnivals.

Mr. John Rock, the president of the California Nursery Co., was a caller during the week.

Again is California going to give to the world a dwarf sweet pea. This time it is Blanche Ferry, one of our most popular sorts. It is claimed to be identical with Cupid, except in color, which is the same as Blanche Ferry. It is to be sent out this fall by one of the largest growers.

Mr. Wm. Hole's place at Berkeley,

known as the Dwight Way Nursery, has been disposed of for a number of years to Aby & Fromenweiler. This is a very large nursery and for years has been one of the leading cut flower establishments on the coast.

The large greenhouses and the cut flower department of the Sunset Seed & Plant Co. has been leased by the foreman, Mr. Sidney Clack. This establishment has long been known as one of the largest places on the Pacific Coast, and enjoys a very fine reputation for the quality of stuff sent out from there. Mr. John Jacks, the inside foreman, has everything looking well in the houses, and as there is a large area of glass quite a lot of help is needed at all times. Mr. Chas. Mitton, an expert carnationist, has charge of the carnation houses, and their always healthy condition reflects great credit on that young gentlemen. The seed and plant business of the company, will continue as heretofore. Mr. Clack has the best wishes of the trade in his advent into the ranks of the growers, and it is to be hoped that success will follow his efforts.

METEOR.

Chicago.

The glut is still with us. For fifteen days stock has been piling in, and warm, humid weather has injured the quality quite seriously. At the beginning of this week prices were fairly firm, as far as good stock was concerned, but with the continued warm days they fluctuated more and more. Really good selected stock holds at same figures as last week, but poorer flowers go much below them, particularly in large lots. Great quantities of the cheaper stock go out of town. First-class Beauties are not over-plentiful, and as the regular demand keeps up they do not fall in price, some during the past week going up to \$3 a dozen. A number of Beauties were required for the Pullman wedding, but this affair did not really make much impression on the market. Some of the Beauties come a little off color, as if burned on one side, the evident result of the humid heat varied by dull days.

All the spring flowers are in full blow. Lilac is all out in Chicago, and will soon be over. While some dealers complain of feeble demand, others think the crop is hardly up to the usual quantity. Apple blossoms are seen everywhere; this is unusually early for our locality. Snowballs are sent in, but are unsalable. Irises hold at the same prices as last week. Daffodils, poet's narcissus and hyacinths are the same as last week; some very beautiful parrot tulips are seen.

Sweet peas range from 50 cents to \$1; good long stemmed flowers sell well, others can't be given away. Fine gladiolus is seen. It is quite possible local trade may brighten a little during the next week, as several large weddings are expected.

The quarterly meeting of the Horticultural Society of Chicago was held last Saturday afternoon. Several new members were elected and action taken toward securing hall for the next exhibition. A meeting of the executive committee will be held soon.

Mr. E. G. Uihlein, vice-president of the Horticultural Society is considerably enlarging his conservatories, and connecting them with his residence by a wide glass covered corridor, which will form an additional show house. Mr. Uihlein has been adding a number of very choice orchids to his collection lately. At the present time he has a specimen of *Eulophia Elizabethae* in bloom, being the first

time this rare and beautiful orchid has been flowered in Chicago. It is a native of Madagascar.

Geo. W. Miller has given up his place at Hinsdale, and sold his establishment to Payne Bros.

Recent visitors: Wm. Hagemann, Philadelphia; J. E. Killen, representing C. H. Joosten, New York; P. M. Koster, of Koster & Co., Boskoop, Holland; A. Colijn, representing C. Colijn & Sons, Voorhout, Holland; John Speelman, of C. J. Speelman & Sons, Sassenheim, Holland.

St. Louis.

The cut flower trade in St. Louis is demoralized, and the great glut is still with us. Quantities of cut flowers are being received daily as a result of the higher temperature, and there is a heavy loss in all kinds of flowers, there being very little demand, and only the very best of stock sells. It is impossible to give the poor stock away. The various commission men receive fine specimens of all kinds of flowers in season, but trade is nothing like what it should be; prices are merely nominal. Beauties have been in fair demand, but have suffered with the other stock. Complaint of poor business is universal in retail circles; nothing whatever seems to be doing. There is here and there a little funeral work, but nothing else of note. Transient trade is almost entirely monopolized by the fakirs, who fairly swarm in the down town district. It has been a long time since prices were as low on roses, carnations and other cut flowers as they have been during the past week. Roses in particular have suffered in this respect, and there have been more of them coming in than the market, fakirs and all could possibly consume. Carnations are down with the rest; the best of stock is sold at 75 cents, and the bulk going at from 50 to 60 cents, and in larger lots even less. In bulbous stock valley has been scarce; tulips, daffs and Dutch hyacinths are coming in from the open ground, but there is little demand for them. Violets are scarce, and the few that come in are sold readily. Smilax is in great demand, owing to the scarcity of ferns. Sweet peas are coming in in large quantities, and sell at 25 cents per 100.

Chandler Floral Co. have closed their doors, and on Saturday two large storage wagons moved out every article in the store.

The committee on the picnic will meet next week and make arrangements for the third annual picnic of the St. Louis florists. The committee this year is as follows: J. W. Kunz, chairman; J. J. Beneke, treasurer; Emil Schrav, secretary; Alex Waldbart, Fred C. Weber and Robert Beyer.

The bowlers had a great time Monday night, ten members rolling, and some good scores were made. Beneke again rolled high man in three games, 552; F. C. Weber, 509, was second; Mr. Weber also had the highest single score, 205. At the next meeting of the club, May 4, election of officers takes place, and all members are requested to be present, as the newly elected officers will be given a banquet after the regular rolling. J. J. B.

Sulphur Fumigation.

Is there any method whereby rose houses can be fumigated with sulphur without danger from fire or injury to the operator? J. W.

We use sulphur for fumigating in our houses very largely, and we have no

trouble whatever with it so long as we do not allow the sulphur to burn. We simply evaporate it a low and steady temperature. In Bulletin 96, Horticultural Division, Cornell University Agricultural Experiment Station, may be found an account of this method of using the sulphur vapor. We find it to be very effective. L. H. BAILEY.

SCOTLAND, PA — W. F. Schmeiske, formerly with G. W. Park, Libonia, Pa., was appointed gardener of the Scotland Soldier's Orphans' Industrial School, and was installed in this position April 22.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads not admitted under this head.

SITUATION WANTED—By a first-class competent man as florist and gardener; private place in country. Address M. P., care Am. Florist.

SITUATION WANTED—By expert grower of grapes under glass; 18 years' experience married. Best references. Address A. R. Box 1541, Joliet, Ill.

SITUATION WANTED—As cut flower grower and propagator; married. Best reference from present employer. CHAS. A. MOSS, Box 181, Knoxville, Tenn.

SITUATION WANTED—Young man age 20, with 5 years' experience, desires a position as assistant. Steady and sober; single. Address CHICAGO, care American Florist.

SITUATION WANTED—By experienced fruit grower and market gardener; thoroughly competent under glass and outside. Address GARDENER, care American Florist.

SITUATION WANTED—By a competent young man on a private or commercial place; with 5 years' experience; single; steady and sober. Address J. W. S., care American Florist, Chicago.

SITUATION WANTED—By competent florist and gardener; German, single man, with life long experience. Please state full particulars in answer. Address COMPETENT, 427 Auburn Ave., Atlanta, Ga.

SITUATION WANTED—In San Francisco or vicinity by first-class German florist, 30 years old, single; private or commercial; long experience; Chicago references. Address CARL VOIBECK, 316 1/2 St., San Francisco, Cal.

SITUATION WANTED—By thorough practical florist and designer. A No. 1 rose and plant grower. Commercial or private place. Carnations and violets a specialty. Age 36. Very best references. Address W. 408 Lsgonda Ave., Springfield O.

SITUATION WANTED—As working foreman in commercial place where first class staff is wanted. None but those paying good wages need apply. Western states preferred. CHAS. MCANIFF, 2540 Cottage Grove Ave., Des Moines, Iowa.

SITUATION WANTED—As foreman by a practical grower of palms, ferns, mums, roses, carnations, violets, forcing of bulbs; 21 years' experience; single. References O. K. Only reliable parties noticed. Address FLORIST, Collingdale, Pa. Lawrence Co., Pa.

SITUATION WANTED—As foreman where a reliable and experienced grower of roses and carnations, etc. is wanted. Have held such position for years, and can give A1 references. Married; age 31. Address COMMERCIAL, 75 W 9th St., New York.

WANTED—One good young man for work around greenhouses. Address A. FAHUT, Crown Hill Cemetery, Indianapolis, Ind.

WANTED—Catalogues of nurseries and seedsmen, and yearly reports of superintendents of parks and cemeteries. Address SUPERINTENDENT, 501 Park St., Hartford, Conn.

WANTED—Six to ten large palms, latanas, arecas, pincelx or clamedorea, in 18 to 24 in. pots. Send prices to EDW. G. UHLEIN, Ohio and Union Sts., Chicago.

WANTED—A good smart boy, 17 to 19 years, one that cares more for a good home and to learn, than high wages. Send letter, with references, and state wages wanted with board. Address TH. E. VAN DER MEULEN, Drockirk, N. Y.

WANTED—A single young gardener, English or Scotch, as assistant in growing greenhouse plants and taking care of house grapes on private place. Send references, etc. ANDORRA NURSERIES, Chestnut Hill, Phila., Pa.

WANTED—A young man capable of caring for a retail store, well up in design work and decorations, also to look after conservatory. Must be of neat personal appearance, good habits and a hustler. Address, with reference, age and wages expected. NEW YORK STATE, care American Florist.

FOR SALE—Three greenhouses with stock and all belonging to it, very cheap. Address W. S. P., care American Florist.

FOR SALE OR RENT—Two connected greenhouses, each 18x30 feet, potting shed and sleeping room. Hot water. No competition. Southern Wisconsin. RETAIL FLORIST, care American Florist.

ANNOUNCEMENT.

Having decided to hold over my old Meteor and Bridesmaid rose plants another year, I have consequently a surplus lot of young

BRIDESMAIDS
and METEORS

which were grown expressly for use in the *Sunny-woods Greenhouses*.

These are offered at \$4 per hundred, from 2 1-2 inch pots. Five per cent. discount to those who will come and see them before buying; for they are worth seeing. From 3 1-2 inch pots at \$6 per hundred.

FRANK L. MOORE,
Originator of the BRIDESMAID,
Chatham, New Jersey.

NOW is a good time to secure a strong healthy stock of the

CELEBRATED NEW ROSE

MRS. PIERPONT MORGAN

which has unmistakably grown in popularity as the season advanced.
Prices for strong plants ready for immediate delivery are as follows:

From 2 inch pots.	per 100	\$125.00
" " "	per 500	625.00
" " "	per 1000	1250.00
" " "	per 50	8.00
" " "	per 12	2.25
From 3-inch pots.	per 100	18.00
" " "	per 50	10.00
" " "	per 12	2.50

Money Order Office,
Station H, Phila. **EDWIN LONSDALE,**
Wyndmoor, Chestnut Hill, Phila.

FOR SALE.
FINE, HEALTHY ROSE STOCK.

Sure to give satisfaction; taken from stock that took First Prizes at Chicago Flower Show, 1895. Terms cash. Samples will be sent on application at the following prices:

50 LA FRANCE, 3-inch.	per 100	\$5.50
275 WOOTTONS, 3-inch.	per 100	5.50
225 KAISERIN, 3-inch.	per 100	5.50
618 PERLES, 3-inch.	per 100	5.50
275 PERLES, 4-inch.	per 100	7.00
600 SIEBRECHT, 2½ inch.	per 100	10.00
700 BRIDES, 2½-inch.	per 100	3.50
190 KAISERIN, 2½-inch.	per 100	3.50
575 PERLES, 2½ inch.	per 100	3.50

Have about 800 PALMS at a bargain, 4 to 10 inch.
POEHLMANN BROS.,
Cook County, **MORTON GROVE, ILL.**

TUBEROUS
Begonia Bulbs.

All colors separate.

\$2.00 per hundred. \$18.00 per thousand.

L. C. BOBBINK, Rutherford, N. J.
Branch of the Horticultural Co., Boskoop, Holland.

Mention the American Florist when writing to advertisers on this page.

REINBERG BROS.,

Offer the Following Stock for Spring Planting:

Roses in 2 1-2 inch pots.

	Per 100	Per 1000
AM. BEAUTIES.....	\$5.00	\$40.00
METEORS.....	3.00	25.00
KAISERIN VICTORIA.....	4.00	35.00
GOLDEN GATE.....	5.00	
BRIDES.....	3.00	25.00
PERLES.....	3.00	
BRIDESMAID.....	3.00	25.00
C. TESTOUT.....	4.00	35.00
BELLE SIEBRECHT.....	4.00	35.00

Orders for less than 50 of any one variety not accepted. **READY FOR SHIPMENT.**

Rooted Carnation Cuttings.

	Per 100	Per 1000
LA FRANCE.....	\$3.00	\$25.00
LIZZIE GILBERT.....	3.00	25.00
STORM KING.....	3.00	25.00
DAYBREAK.....	1.00	8.00
TIDAL WAVE.....	1.00	8.00
WM. SCOTT.....	1.00	8.00
PORTIA.....	1.00	8.00

Free of rust. Ready for immediate shipment.
Orders for less than 100 of any one variety not accepted.

Send orders to **51 Wabash Ave., CHICAGO, ILL.**

ROSES.

Ready for immediate shipment; extra strong and clean; from 2 1-2 in. pots.

CLOTHILDE SOUPERT,
THE NEW PINK SOUPERT,
PERLES,
LA FRANCE,
BRIDES,
SUNSET,
BRIDESMAID,

\$4.00 PER 100.

Write for prices on large lots.

BEDDING ROSES in 20 varieties, our selection, per 100, \$3.00.

CARNATIONS—ROSE QUEEN and ALASKA, from soil, per 100, \$1.00.

WILLIAM SCOTT, per 100, \$2.00; per 1000, \$15.00.

GREENHOUSES, 84 & 86 RANDOLPH STREET, CHICAGO.
WESTERN SPRINGS, ILL. VAUGHAN'S SEED STORE,

ROSES

BEAUTIES, MERMETS, CUSINS, TESTOUTS, NIPHETOS, PERLES, BRIDES, BRIDESMAIDS, METEOR, HOSE, LA FRANCE, WOOTTON, WATTEVILLES, AUG. VICTORIA. Rooted Cuttings. Cash with order. Owing to number booked, they will be executed in rotation to assure prompt delivery. Order early.

Address for quotations, **VILLA LORRAINE ROSERIES, MADISON, NEW JERSEY.**

Home of the Queen of Roses.

BELLE SIEBRECHT.

READY APRIL 1st.

Send in your orders early; the demand is great.
The finest pink ROSE ever introduced.

2-inch pots. . . . \$12.00 per 100

2-inch pots. . . . 55.00 per 500

2-inch pots. . . . 100.00 per 1000

3-inch pots. . . . 18.00 per 100

NOTICE:—All orders filled in strict rotation.

SIEBRECHT & WADLEY,

Rose Hill Nurseries, NEW ROCHELLE, N. Y.

ROSES.

BRIDES, BRIDESMAIDS, MERMETS and LA FRANCE, \$3.50 per 100; \$30.00 per 1000.
PERLES, \$4 per 100; \$35 per 1000. 3 in. \$6 a 100.
AMERICAN BEAUTIES, \$5.00 per 100; \$40.00 per 1000. Strong, healthy stock. 25 at 100 and 250 at 1000 rates. Cash with order.

R. F. TESSON,

West Forest Park, ST. LOUIS, MO.

CLIMBING ROSES.

Baltimore Belle, Prairie Queen,

Tennessee Belle. Extra strong,

from 2½-inch pots, per 100, \$3.00.

THOS. A. McBETH, Springfield, O.

100,000 ROSES. 100,000

Here is the chance to get your money's worth. Write for quotations and have lists priced.

Address **NANZ & NEUNER,** Louisville, Ky.
CATALOGUES FREE.

Rogers Park Floral Co.

GOOD FIRST-CLASS STOCK.

	In 2½-inch pots.	per 100	per 1000
Am. Beauties.....	\$5.00	\$40.00	
C. Testout.....	4.00	35.00	
Kaiserin Victoria.....	4.00	35.00	
La France.....	4.00	35.00	
Belle Siebrecht.....	4.00	35.00	
Bridesmaids.....	3.00	25.00	
Brides.....	3.00	25.00	
Perles.....	4.00	35.00	
Meteors.....	3.00	25.00	
Meteors, 4 inch pots.....	5.00	40.00	

Orders for less than 100 not accepted.
Ready for shipment now.

Send Orders to 41 Wabash Ave., Chicago.

Mention American Florist.

ROSES. NOW READY.

First-Class Stock, 2½-inch pots.

	Per 100	Per 1000
PERLES.....	\$3.50	\$30.00
METEORS.....	3.00	25.00
BRIDES.....	3.00	25.00
BRIDESMAIDS.....	3.00	25.00

A. G. PRINCE & CO.,

41 Wabash Ave., CHICAGO.

THE DIRECTORY

For 1896

IS NOW READY.

PRICE \$2.00.

American Florist Co.,

DRAWER 164

CHICAGO.

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Subscriptions accepted only from those
in the trade.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

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FLORIST is for Florists, Seedsmen, and dealers in
wares pertaining to those lines ONLY. Please to
remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure
insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

Cincinnati.

We are still having bright and warm weather with little prospect of rain. Business is improving slowly but steadily. The writer visited Mr. Fred Walz, of Cumminsville, last week; he takes special interest in his house of seedling carnations; although late in the season, several of them show up well. Among them No. 1 is a brilliant scarlet, flowers three inches across, strong grower and free bloomer; Mr. Walz thinks this one has a bright future. No. 2 is white with pink cast, very large and fragrant; No. 3 dazzling red, stiff stem, strong grower, well built flower with high center. From here we visited Mr. K. Wolf's establishment and found among an importation of new plants one that will surely take the lead of late introductions, *Actinidia polygama maxima*. This is a native of Japan, a climber and perfectly hardy, as Mr. Wolf has experimented with it last winter. Its flower is reddish-purple, in shape like wistaria, sweet scented, blooming in June and July, foliage dark green; fruit in the shape of the gooseberry and has delicious flavor. The plant is all right, but Mr. Wolf fears the name might kill it, there is a great deal in a name.

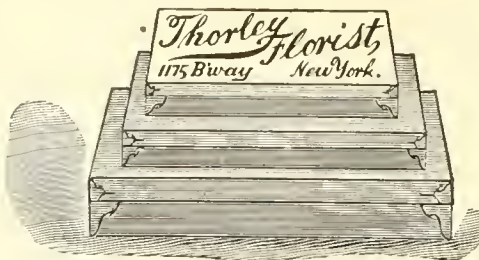
H. SCHWARZ.

GRAND FORKS, N. D.—The Grand Fork Floral company, organized some months ago, has about completed a fine range of five houses, about 4,000 square feet at 324 N. 8th street. A down town flower and seed store will also be opened for the spring trade.

OWENSBORO, KY.—The Women's Auxiliary Committee of the Y. M. C. A. will hold a chrysanthemum show November 11 to 14. The premium list has been printed and copies may be had on application to Mrs. J. C. Wandling, secretary of the committee.

STAATSBURG, N. Y.—Mr. James Macfarlane, who is in charge of the conservatories on the Dinsmore estate, was married April 29. The bride was Miss Emma K. Crapser, the eldest daughter of Mr. John A. Crapser, for many years the superintendent of Mrs. Hoyt's estate.

The new directory contains a total of 9,528 names and addresses, of which 5,258 are florists who do a general local trade, having greenhouses and retailing the product of same, 797 are florists who grow for the wholesale market only, 645 are retail store florists who have no greenhouses, 52 are wholesale commission dealers in cut flowers, 1,524 are nurserymen, 543 combine the business of florist and nurseryman, 364 are seedsmen, 248 combine the business of florist and seedman, and 97 who combine all three branches of the business.



The boxes as they appear when set up for use.

We make them in a sufficient number of sizes, including for violets, to meet all necessary requirements.

THE NATIONAL FOLDING BOX & PAPER CO.,

NEW YORK SALESROOM:
132 & 134 Franklin Street.

315--325 Congress Ave., NEW HAVEN, CONN.

COMPLETE LINE OF SUPPLIES
WIRE WORK
— WE MAKE —
IMPORTERS OF
BULBS
PHONE 1270
BOX 75
ALWAYS ON HAND
FINE STOCK
CUT FLOWERS
ELLIS & POLLWORTH
MILWAUKEE WIS.

WISCONSIN FLOWER EXCHANGE,
CUT FLOWERS,
Palms, Ferns and Growers' Stock.

FLORAL ARRANGEMENTS, STORAGE
AND COMMISSION.

Box 87. MILWAUKEE, WIS.

C. A. KUEHN,
(Successor to ELLISON & KUEHN.)

Wholesale Florist,
1122 PINE STREET,
ST. LOUIS, MO.

A complete line of Wire Designs.
Mention this paper.

H. L. SUNDERBRUCH,
Wholesale Florist
4TH AND WALNUT STREETS,
Cincinnati, O.

The Boston Flower Market

is prepared to purchase, on order, and
ship Trade orders for Cut Flowers at
prices ruling in the market on day of
sale. TERMS STRICTLY CASH.

Address **WM. J. KENNEDY, Mgr.,**
Flower Market, Park St., BOSTON, MASS.
Long Distance Telephone "Haymarket 68."
Mention American Florist.

DAN'L B. LONG,
FLOWERS AT WHOLESALE.

Strictly Commission Business.
SUPPLIES, ETC.
LISTS FREE. **BUFFALO, N. Y.**

A. & F. RÖLKER,
Down-town Wholesale Florists,
106 & 108 Liberty Street (Basement),
NEW YORK.

"The National"

Folding Flower Boxes are the best
and most convenient ever put upon
the market. They are made from
board, manufactured especially for
these goods, and made so as to resist
moisture, thereby keeping the flow-
ers fresh, and the box holding its
shape.

**THE NEW YORK
CUT FLOWER CO.,**
119 and 121 W. 23rd St., and
112 and 114 W. 24th Street,
**IS NOW
OPEN FOR BUSINESS.**

The Largest Dealers in
CUT FLOWERS
IN THE WORLD.

Handling flowers of all kinds in quantity
we are in a position to fill shipping orders
promptly. We shall give careful attention
to this branch of the business, and solicit
your patronage.

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FLORISTS**
JOEBERS IN
FLORISTS'
SUPPLIES,
FLORISTS'
VASES.

METS,
BRIDES,
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.

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WELCH BROS.,
Wholesale Florists,

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Near Tremont St., **BOSTON, MASS.**

Asparagus Plumosus Nanus.
Cut Strings, 8 to 10 feet long,
50 CENTS.

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Wholesale Florist
1612 & 1614 BARKER STREET,
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SEEDS, BULBS AND ALL
FLORISTS' SUPPLIES.

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If you want First-Class Flowers, properly packed and delivered on time, send us your orders and you will get what you want.

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WRITE US FOR OUR ILLUSTRATED CATALOGUE.

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Our Roses best them all, in quality.
Headquarters for fine American Beauties.

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We are prepared to fill your orders with first-class flowers. Give us a trial order.

A. G. Prince & Co. WHOLESALE COMMISSION FLORISTS, 88 Wabash Avenue, CHICAGO.

Consignment solicited. Prompt attention to all orders.

Owing to the great increase in our business we have removed to the above address where we have larger quarters, better light, and better facilities to fill orders satisfactorily.

Wholesale Markets.

Cut Flowers.

NEW YORK, April 29.	
Roses, Beauty.....	5.00@20.00
" Niphetos, Perle.....	1.00@2.00
" Cushn. Waterville, Meteor.....	1.00@3.00
" Bride, Bridesmaid.....	2.00@5.00
" Testout, Morgan.....	1.00@4.00
" Jacqs.....	3.00@8.00
" Hybrid perpetual.....	10.00@20.00
Carnations, ordinary.....	50@1.00
" fancy.....	1.00@2.00
Sweet peas.....	.75@1.00
Violets.....	.25@.50
Valley.....	1.00@4.00
Harriell.....	2.00@4.00
Mignonette.....	2.00@6.00
Adiantum.....	75 @ 1.00
Asparagus.....	50 @ 1.00
Smilax.....	20.00@25.00

BOSTON, April 29.	
Roses, Gontier, Niphetos.....	1.00@2.00
" Perle, Mornet.....	2.00@3.00
" Bride, Bridesmaid, Meteor.....	3.00@6.00
" Beauty.....	5.00@20.00
" Brunner.....	10.00@25.00
Carnations.....	.75@1.50
" fancy.....	1.50@2.50
Violets.....	.50 @ .75
Valley.....	2.00@3.00
Longiflorum, callas.....	4.00@6.00
Mignonette.....	2.00@3.00
Adiantum.....	1.00
Smilax.....	17.00@25.00
Asparagus.....	50.00

PHILADELPHIA, April 29.	
Roses, Beauties long.....	20.00
" medium.....	8.00@15.00
" short.....	4.00@6.00
" Brunner.....	12.00@16.00
" Brides, Bridesmaid, La France etc.....	4.00@6.00
" Kaiser.....	3.00@4.00
" small teas.....	1.00@3.00
Carnations, fancy.....	1.50@2.00
" first quality.....	1.00@1.50
" seconds.....	.50@1.00
Sweet peas.....	1.00@1.50
Harriell.....	6.00@8.00
Smilax.....	15.00@20.00
Asparagus.....	55.00@60.00
Adiantum.....	1.00

CHICAGO, May 1.	
Roses, Beauties long.....	8.00@25.00
" seconds.....	4.00@6.00
" Brides, Bridesmaid.....	3.00@4.00
" Meteors.....	3.00@5.00
" Perle, Gontier.....	1.00@2.00
" Testout.....	4.00@8.00
" Morgan, Siebrecht.....	2.00@3.00
Carnations.....	.75@1.00
" fancy.....	1.00@1.50
Antirrhinum.....	6.00@8.00
Harriell.....	4.00
Longiflorum.....	5.00
Valley.....	3.00@4.00
Violets.....	.40@.75
Tulips daffodils.....	1.00@3.00
Narcissus, single.....	1.00@1.50
Hyacinths, Dutch.....	2.00@4.00
Mignonette.....	1.00@2.00
Sweet peas.....	.50@1.00
Lilies.....	2.00@3.00
Smilax..... per bunch.....	10@.50
Adiantum.....	15.00@18.00

ST. LOUIS, April 29.	
Roses, Beauties, long.....	10.00@15.00
" short.....	2.00@5.00
" select stock.....	2.00@4.00
" general stock.....	1.00
Carnations, fancy.....	1.00
" ordinary.....	.50
Valley.....	3.00
Harriell.....	2.00@6.00
Callas.....	3.00@6.00
Romans.....	2.00
Tulips.....	2.00
Sweet peas.....	.25
Violets.....	.25
Smilax.....	15.00@18.00

GEORGE A. SUTHERLAND, Successor to PECK & SUTHERLAND, Successors to WM. J. STEWART, Cut Flowers and Florists' Supplies WHOLESALE. 67 Bromfield St., BOSTON, MASS. New England Agent for the GREAT ANTIPEST.

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For 1896

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Price \$2.00.

American Florist Co.

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John I. Raynor, 49 WEST 28th STREET, NEW YORK.

SPECIAL EXTRA STOCK OF
AM. BEAUTY, METEOR,
BRIDESMAID, BRIDE.

DISBUDED CARNATIONS.
FANCY GRADE.

Finest MIGNONETTE in the world.

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Roses Shipped to all points. Price list on application.

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Careful Shipping to all parts of the country.
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FRANK MILLANG, CUT FLOWERS, WHOLESALE, COMMISSION, 408 E. 34th Street, CUT Flower Exchange, NEW YORK.

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MILLANG & WINES, WHOLESALE FLORISTS, 501 Sixth Avenue, CORNER 30TH ST., NEW YORK. Consignments Solicited.

The Seed Trade.

AMERICAN SEED TRADE ASSOCIATION.

S. E. BRIGGS, Pres.; T. W. WOOD, 1st Vice-Pres.; ALEX. RODGERS, 2nd Vice-Pres.; A. L. DON, 114 Chambers St., New York, Sec'y and Treas. The fourteenth annual meeting will be held at Niagara Falls, N. Y., June 9 to 11, 1896.

THE USUAL rumors of the June 1st failure crop are in the air and apparently too well founded.

SYRACUSE, N. Y.—The seedsmen are experiencing the heaviest trade this spring that they have ever had, and consequently feel very happy.

THE Richard Frotscher Seed Co., Ltd., succeeds the late Richard Frotscher at 521 to 525 Dumaine street, New Orleans. The officers of the Co., are as follows: John T. Finke, president; J. A. Schalck, vice-president and general manager; L. Burns, Jr., secretary and treasurer. The J. Steckler Seed Co., Ltd., succeeds to Mr. Frotscher's branch store at 518 and 520 Gravier street, with officers as follows: Mary T. Frotscher, president; Jos. Steckler, vice-president and manager; R. P. Steckler, secretary and treasurer.

Catalogues Received.

Chas. Schwake, New York City, palm seeds; Wilhelm Pfützer, Stuttgart, Germany, seeds and plants; California Nursery Co., fruit trees; same, ornamental trees, plants and roses; same, nursery stock; K. J. Kuyk, Hillegom, Holland, Dutch bulbs; K. J. Kuyk, Ghent, Belgium, azaleas, palms, araucarias; Sunset Seed and Plant Co., San Francisco, seeds and plants.

Siebrecht & Wadley, New Rochelle, N. Y., palms, decorative plants, orchids, etc.; S. C. Moon, Morrisville, Pa., ornamental trees, shrubs, fruit trees and hardy plants; L'Horticulture Internationale (Linden), Brussels, Belgium, orchids; H. H. Given Florist Co., Denver, Colo., plants; V. Lemoine & Son, Nancy, France, plants, bulbs and tubers; A. W. Livingston's Sons, Columbus, O., seeds; W. P. Peacock, Atco, N. J., dahlias.

A Violet Deal.

Last spring we purchased 100 plants of the new California violet for \$10, our idea being to try them, and if good to work up a stock, but after growing them all winter we got no bloom larger than the common single violet, and very light in color; we came to the conclusion that all was not right, and on comparing our plants with those of other growers we found quite a difference; our neighbors' plants had large dark purple flowers, plants growing flat, and a different shaped leaf; our plants grew tall and weedy like. We knew then we had the wrong species, or the common wood violet, and at once dumped them, first sending the seller a full plant.

As the matter stands we are out the cost of plants, space, labor, and have no stock, and ask compensation. The question is, what are we entitled to?

COLFAX AVENUE FLORAL CO.

Denver, Colo.

NOVELTIES FOR THE TRADE.

New Asparagus Sprengeri 30c New Spiraea Anthony Waterer 25c New Clubbing Meteor Rose 30c New Golden Rambler, Yellow Souper, New Crimson Rambler \$5 per 100. New Justitia, New Double Rudbeckia, New Camass, Corex Japonica, Bougainvillea, Gladioli, Phil. New Lite Geranium, Geranium Agnes Kelway, best pink. Send for Catalogue of Novelties and Trade Bulbs at low prices. A. BLANC & CO., Japanese Jardiniers at Philadelphia, Pa. very low prices. List free.

Double Pearl Tuberose Bulbs.

No. 1, Size 4 to 6 inches, \$8.00 per 1000.

No. 2, Size 1½ to 3 inches, \$6.00 per 1000.

Robert Buist Company, Philadelphia, Pa.

White Roman Hyacinths

NARCISSUS GRANDIFLORA,

NARCISSUS PAPER WHITE,

FREESIA, extra, and many others good for forcing.

IMMORTElLES in all colors.

Catalogue on application

TELEGRAPH ADDRESS
ROCHE, OLLIULES.

ALPHONSE ROCHE, Ollioules, Var, France.

PALM SEEDS

On hand in splendid condition.

	Per 100	Per 1000	Per 5000
Areca lutescens	\$1.50	\$10.00	\$47.50
Areca rubra	1.50	10.00	47.50
Geonoma gracilis	1.75	12.00	55.00
Geonoma Schottiana . . .	1.75	12.50	60.00

Non germinating seeds will be replaced.
Our Palm Growers' Guide free on application.

Chas. Schwake, 404 E. 34th St., New York.

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JUST IN TIME

To Render the Most Acceptable Service for

DECORATION DAY.

I am prepared to book your orders for prompt shipment on and after May 10, for

GRANDIFLORA CAPE JASMINE BUDS.

PRICES AS FOLLOWS:

1st quality, long stems . . .	\$1.00 per 100
2nd " " " " " " " " " "	.75 per 100
3rd " " " " " " " " " "	.60 per 100

In baskets by express, purchaser to pay charges, Terms, invariably cash. Special terms in large quantities. No shipments on commission.

Address J. M. WEEMS,

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PALMS.

150,000 of all the leading varieties.

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PANSIES.

-- THE JENNINGS STRAIN --

of finest American grown Pansies from cold frames, fine stocky plants grown 5 inches apart; will be in bud and bloom April 1st. Stock the finest.

Cash with	Price per	100.....	\$ 2 00
order.	" " "	500.....	7 50
	" " "	1000.....	15 00

E. B. JENNINGS, L. B. 254, Southport, Conn.,

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LILY BULBS FROM JAPAN.

Imported Direct from the Japanese Bulb Farms and offered at Import Prices.

These are from same reliable growers heretofore, and can be thoroughly depended on. They are repacked on arrival and every bulb guaranteed sound. I offer these with every confidence and know they will give good satisfaction. Note especially my very low prices this year for repacked and guaranteed bulbs.

	Per 100
Lilium auratum, 7 to 9 inches	\$4 00
" " " 9 to 11 " "	6 00
" speciosum rubrum, 7 to 9 " "	6 00
" " roseum, 7 to 9 " "	6 25
" " album, 7 to 9 " "	8 50

CANNAS, GLADIOLI, DAHLIAS, PÆONIES, BEGONIAS, GLORINIAS, IRISES, MADEIRA VINES, AND OTHER SPRING BULBS.

Fine assortment at low rates.

Send for Price List.

G. C. WATSON,

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Association Flora, BOSKOOP, HOLLAND.

CLEMATIS, Large-flowering sorts, \$15.00 per 100.

Rhododendrons in sorts, Pæonia, Bleeding Heart, Spiræa japonica, Azalea, Magnolia, Lilacs and Shrubs.

H. P. ROSES in sorts.

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Catalogue on Application. JERSEY CITY, N. J.

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106 Liberty Street, NEW YORK.

NEW BISMARCK APPLES.

1 and 2 years old.

CH. KOEHLER, Five Points Nursery,

Oxford Church P. O., Phila., Pa.



YES! UP TO DATE SEEDS,
AND NO OTHERS.

	Trade Pkt.	Oz.
CENTAUREA GYMNOCARPA	\$0 15	\$0 40
COBÆA SCANDENS	.15	.35
COSMOS, Mixed	.15	.40
MIGNONETTE MACHET	.10	.50
ASTERS, Select Florist's stock. Victoria mixe	.50	3.00
MUSA ENSETE, 10 seeds, 25 cts.; 100 seeds, \$1.50.		

WM. ELLIOTT & SONS, New York.

VAN ZANTEN & CO.

HILLEGOM, near Haarlem, HOLLAND,

Headquarters for High-grade Dutch Bulbs.
Finest and Largest Stock of best Forcing Bulbs. Prices very low for First Quality.

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NORTHROP, BRASLAN, GOODWIN CO.

Being **GROWERS** we are in a position to supply **Seeds of First-Class Quality** and to make **specialty low prices**. A trial will convince those who have not yet found this out.

NORTHROP, BRASLAN, GOODWIN CO.

20 to 28 Hennepin Ave., MINNEAPOLIS, MINN.

55, 57 & 59 N. Jefferson St., CHICAGO.

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Hillegom, Holland.

Extra quality of **HIGH GRADE FORCING BULBS AT LOW PRICES.** We now book orders for **Azalea Indica, Palms, etc.** The largest collection of sundry bulbs and plants.

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GROWERS OF

Hyacinths, Tulips, Crocuses, Narcissus, etc.

WE ARE ABLE TO QUOTE THE LOWEST PRICES FOR WHOLESALE DEALERS.

Address all Correspondence to NEW YORK HOTEL, 665 Broadway, NEW YORK CITY.

Mammoth Verbenas.
New, large-flowered, very fine quality.
Per Ounce, \$1.50.

CHOICE FLOWER SEEDS
For Florists.
Price List free on application.

HERRMANN'S SEED STORE,
413 E. 34TH STREET,
Near Long Island Ferry, NEW YORK.

WE ARE HEADQUARTERS ON
BULBS FOR FORCING,
FLOWER SEEDS FOR FLORISTS
ENGLISH MUSHROOM SPAWN.
Special prices on application.

JOHN GARDINER & CO., Seedsmen,
631 Market St., Philadelphia, Pa.

C. H. JOOSTEN, Importer,
36 Dey Street, NEW YORK.

SPECIALTIES.
Bulbs, Azalea Indica, Palms, Roses,
and all kinds of Nursery and
Fruit Tree Stocks.

Catalogues on application.

PLEASE mention the AMERICAN FLORIST
every time you write to an advertiser.

Florists' Sweet Peas



New Sweet Pea "America"

Is more distinct and striking than any other variegated Sweet Pea in existence, and is of the large flowering type. Its color is a white ground and through the center of the standard is a wide carmine scarlet blotch veined with fine scarlet lines running toward the edges and showing in the same manner on the wings. The dashing contrast of the heavy scarlet blotch on the white ground makes the blossoms very effective in a mass of cut bloom or when flowering in the garden. It is indispensable for any complete collection of colors in Sweet Peas. Pkt. 15c; 2 for 25c; 5 for 60c; 10 pkts. \$1.00; 100 pkts. \$7.50.

BLUSHING BEAUTY, clear "Daybreak" pink, largest size. Oz. 5c; 1-4 lb. 12c; 1b. 35c; 5 lbs. \$1.50.

COUNTLESS OF RADNOR, clear lavender, very large flower. Oz. 5c; 1-4 lb. 15c; 1b. 45c.

EMILY HENDERSON, pure white, large early. Oz. 5c; 1-4 lb. 12c; 1b. 35c; 5 lbs. \$1.50.

HER MAJESTY, clear bright rose, very fine flower. Oz. 7c; 1-4 lb. 15c; 1b. 45c.

FIREFLY, brightest fiery scarlet, large. Oz. 10c; 1-4 lb. 20c; 1b. 60c.

MRS. ECKFORD, best large yellow. Oz. 7c; 1-4 lb. 18c; 1b. 55c.

MRS. SANKEY, large, white. Oz. 5c; 1-4 lb. 15c; 1b. 40c; 5 lbs. \$1.75.

INVINCIBLE CARMINE, deep crimson scarlet. Oz. 6c; 1-4 lb. 12c; 1b. 35c.

TRUE LOTTIE ECKFORD, white, blue edge, large. Oz. 5c; 1-4 lb. 15c; 1b. 40c; 5 lbs. \$1.75.

For other varieties see our "Book for Florists," sent free to florists.

VAUGHAN'S PRIZE MIXTURE SWEET PEAS. 10 lbs. \$7.00; 1b. 80c; 1-4 lb. 25c; oz. 15c.

ECKFORD MIXTURE. 10 lbs. \$5.00; 1b. 60c; 1-4 lb. 20c; oz. 10c.

Florists' Forcing Mixture. 1b. 60c; 1-4 lb. 20c; oz. 10c.

ALL COLORS MIXED. 10 lbs. \$2.50; 1b. 30c; oz. 5c.

If to go by mail, add 8 cts. per pound to above prices.

VAUGHAN'S SEED STORE,

NEW YORK:
26 Barclay St.

CHICAGO:
84 Randolph St.

A SMALL STOCK ONLY.

Now on Hand:

DOUBLE PEARL TUBEROSES, large size, good quality, solid and well ripened, \$1.50 per 100; \$10 per 1000.

(250 at 1000 rate.)

Large No. 2 Bulbs, 75c. per 100; \$5.00 per 1000.

GLADIOLUS, CALADIUMS, AND OTHER BULB STOCK.

CATALOGUE FREE.

DAN'L B. LONG, Jobbing Florist,
BUFFALO, N. Y.

NEW CALIFORNIA CHRYSANTHEMUM GOVERNOR BUDD

NOW READY. The Queen is justly pronounced the queen amongst mums. Governor Budd is identical in shape, size and fine finish of blooms; in growth it is also very similar. If anything, more vigorous and with stronger flower stems. It is only in color it differs from its parent The Queen, being of a lovely shade of lemon yellow. Certificate by the California State Floral Society. 50c each; \$5 per dozen. Cash with order.

J. A. CARBONE, West Berkeley, Cal.

When writing to any of the advertisers on this page please mention the American Florist.

Mention the American Florist when writing to advertisers on this page.

Rochester, N. Y.

Trade in cut flowers is still rather slow though since my last report a slight improvement can be noticed everywhere. Flowers are very plenty and they are good in quality; the warm weather we had, has brought them out in a rush, so that all the growers in this neighborhood have more on hand than can be disposed of advantageously; consequently prices have gone down to a very low figure. Several lots of carnations only brought \$7 to \$8 per 1,000, while others found no purchasers at any price; a few fancy ones only were sold at higher figures. Tulips, hyacinths, double and single narcissus are very plenty also, and prices range low; good valley is scarce at present, also smilax, but no great amount of the latter is wanted very badly just now, for elaborate decorations in this town are few and far between. Violets continue in demand but are not so plentiful now, and show the effects of the recent hot weather in the diminished size of the flowers. The English out door violets are rather small and short stemmed here this season, and if we should get another warm spell they will soon be over entirely.

An unusually early spring for this section has created quite a demand for plants of all descriptions, and the retail plant trade is better than we are accustomed to at so early a date, but prices obtained are low; there seems to be an overabundance of bedding plants in this vicinity which the growers are willing and anxious apparently to dispose of at almost any price. The demand for hardy plants has increased to a considerable extent within the last few years, and has been better this spring than ever before; many parties who are planting shrubs intermix them with hardy flowering plants, mostly of those species and varieties which flower in midsummer and autumn, when but few shrubs are in bloom. Delphiniums, phloxes, coreopsis, helianthus of sorts, helenium, aconitum, monarda, anthemis, Pyrethrum uliginosum, rudbeckias, chelones, foxglove, hollyhocks, platycodons, hibiscus, anemones, saponaria, catananche, eryngium, boltonia and others are principally called for in such cases, excluding almost entirely all dwarf, and all spring flowering stuff, probably because the majority of shrubs are in bloom from early spring to summer, and the shrubbery at that time presents an attractive appearance without the addition of hardy herbaceous plants. J. B. K.

Tightening a Leaky Tank.

In answer to F. J., how to tighten a leaky tank, I would suggest after tightening the hoops as suggested by Mr. John N. May, and the tank still leaks, get a bucket full of horse droppings and distribute them on the water in the tank immediately over the leaks. These will settle and will be drawn into the cracks and will stop the leaks within five minutes. It never fails, and lasts as long as the tank is kept partially full of water.

W. H. KING.

A BILL has been introduced in Congress to create a national park at Appomattox, Va. The bill provides for the appointment of a commission to purchase 3,000 acres of ground at Appomattox, and appropriates \$250,000 for that purpose.

FOR SALE.

One thousand 1-inch GERANIUMS, best leading sorts, large plants and good flowers, at \$10.00 per hundred.

R. ROY DAVIS, MORRISON, ILL.

IVORY! THE GREAT SUCCESS!

NOTHING IS IN MORE UNIVERSAL DEMAND BY FLORISTS THAN A GOOD, PRODUCTIVE WHITE CARNATION.

In IVORY you will have it. Try it and you will have a money maker. It produces as many blooms as Wm. Scott, is as perfect in form as any Carnation yet produced, held by a calyx that never bursts and carried on a long, wiry stem. What more do you want?

Fine plants from soil, \$10 per 100; \$75 per 1000. Stock ready now.

Also fine stock of all the other leading varieties. SEND FOR PRICE LIST.

GEO. HANCOCK & SON, Grand Haven, Mich.

HERR'S CARNATIONS.

ROOTED CUTTINGS that will give good results, because they are taken from healthy stock, and will be well rooted when sent out.

VARIETIES:

McGOWAN,
STORM KING,
ALASKA,
ANNIE LONSDALE,
IVORY,

DAYBREAK,
SCOTT,
ROSE QUEEN,
PEACHBLOW,
DELLA FOX,

DORNER,
STUART,
PORTIA,
JUBILEE,
IAGO,

HELEN KELLER,
KITTY CLOVER,
ELDORADO,
CARLEDGE,
TIDAL WAVE.

Fourteen large houses full of Carnations. State how many you will want of each variety in asking for prices.

L. B. 496.

ALBERT M. HERR, LANCASTER, PA.

EMMA WOCHER, The New Shell-Pink Carnation

This Carnation is of a "lively bright shade," deeper than Daybreak, blooms measure from 2 to 2½ inches in diameter, fragrant, with a stem that carries the bloom erect at all times, calyx perfect, flower of good form; will grow erect with no other support than a V shape wire netting and is pronounced by all who have seen it to be an acquisition and many orders have already been booked. In our Cincinnati market it sells more readily than either Scott or Daybreak; it is not a cropper but a continuous bloomer.

Price for strong well-rooted cuttings, \$10 per 100; \$75 per 1000; 500 at 1000 rates. Cash must accompany all orders or satisfactory reference. Address

R. WITTERSTAETTER,
Sedamsville, Ohio.

CARNATIONS

Orders solicited for ROOTED CUTTINGS.

KOHINOOR takes the lead.

Other Novelties of the Standard sorts at standard prices. All healthy and strong.

C. J. PENNOCK,
The Pines. KENNETT SQUARE, Chester Co., PA.

CARNATIONS.

ROOTED CUTTINGS,

In large quantities, see list of varieties in FLORIST, March 21st. Send for price list.

H. WEBER & SONS, Oakland, Md.

DO YOU WANT CARNATIONS?

If so, why not GROW the BEST?

50,000 ROOTED CUTTINGS, including Daybreak, Wm. Scott, Goldfinch, Lizzie Gilbert, Emily Pierson, Lizzie McGowan, Tidal Wave, S. Spray, Hinz's White, &c. Can do you justice in quality and prices. Write me before you buy. Address CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

The Crack Carnations:



SCOTT, ALBERTINI,
DAYBREAK, McGOWAN.

Selected Cuttings, well rooted in sand and soil, delivery February 15th and later, \$2.00 per 100; \$15.00 per 1000.

Send your order at once, with cash, to get these figures . . .

ALEX. McBRIDE,
ALPLAUS, N. Y.

Surplus Stock. 8,000 Scott AND Daybreak

Extra strong transplanted.

\$15.00 per 1000.

JOHN BURTON,

Chestnut Hill, PHILADELPHIA, PA.

CARNATIONS. ROOTED CUTTINGS

WM. SCOTT, LIZZIE McGOWAN,
\$10.00 per 1000.
DAYBREAK, TIDAL WAVE,
\$12.00 per 1000.

All in fine condition. No order for less than 500 plants desired. Cash with order.

C. SOLTAU & CO., 199 Grant Ave., Jersey City, N. Y.

CARNATIONS.

Rooted Cuttings in immense quantity, strong and well-rooted and particularly free from rust.

Daybreak, Wm. Scott, Thos. Cartledge, Tidal Wave \$2.00 per 100; \$15.00 per 1000
Lizzie McGowan, Silver Spray, Portia, \$1.50 per 100; \$12.00 per 1000.
Lady Campbell Violets in any quantity, \$1.00 per 100; \$8.00 per 1000.

JOS. RENARD, Unionville, Chester Co., Pa.

Della Fox and Annie H. Lonsdale

ALL SOLD.

MYERS & SAMTMAN, Chestnut Hill, Phila.

CARNATIONS

Do not fail to order some of the BRIDESMAID CARNATION. The best pink to date. Plants from flats, \$5.00 per 100; \$10.00 per 1000.

We also have to offer the following varieties from flats. Sold out of all others. NO RUST.

	Per 100	Per 1000
METEOR.....	\$5.10	\$10.10
STORM KING.....	5.10	40.10
ROSE QUEEN.....	1.00	30.00
UNCLE JOHN.....	3.00	25.10
E. A. WOOD.....	3.00	25.00
DAYBREAK.....	3.00	25.00
WM. SCOTT.....	2.50	20.10

NEW CHRYSANTHEMUMS.

MRS. W. C. EGAN, 50c each; \$5 per doz.; \$35 per 100.
TIPPECANOE, AMARANTH.

New Begonia Lillian Harrington.

A cross between Alba and Rubra. Florets and sprays very large and of a deep rose color. The bronze green foliage and large panicles of flowers make it very attractive and desirable. 2½-inch pots, \$10.00 per 100.

Dwarf Scarlet Salvia Kobold.

Dwarf growth, only half the height of Splendens. Its early and free continuous blooming with its dwarf habit makes it one of the best bedding plants, and so much more attractive than the old tall growing Salvia Splendens now in use. 2-inch pots, \$4.00 per 100.

Pandanus Veitchii.

We still have a few plants from 8-inch pots, very fine and good color, at \$3.00 each.

Swainsona Galegitolia Alba.

A most desirable white cut flower, very free. 2-inch pots, at \$4.00 per 100.

Antirrhinum Majus Alba.

The best of the whites for winter forcing, as well as fine bedding plants. Fine stock. 2-inch pots, \$4.00 per 100.

F. DORNER & SONS CO.

LA FAYETTE, IND.

Chrysanthemum Novelties

Following varieties our seedlings, except Governor Budd. They have been awarded Certificate of Merit from California State Floral Society.

PRIDE OF JAPAN—Perfectly round; deep pink.
GOLDEN CORONET—Gorgeous, bright, intense yellow; incurved.

MRS. HUNTER—Improvement on Lady Playfair.
MRS. J. SEULBERGER—Grand white, style of Ivory; size as much as The Queen, with great depth; slightly hairy.

MRS. MARGUERITE CARBONE—Best of hairy varieties, incurved, snow white.

VERNAL BEAUTY—A grand size, incurved, salmon yellow and buff.

THE KING—Incurved, red and bronzy gold, great size and depth.

GOVERNOR BUDD—Yellow, sport from The Queen. Price, 50c each; \$5 per dozen; \$35 per 100.

CASH WITH ORDER. Send Catalogue free on application. Address

DOMOTO BROS., Japanese Nursery,
E. OAKLAND, CALIFORNIA.

A DAISY that SELLS

25 Rooted Cuttings of my NEW YELLOW MARGUERITE for \$2.00 by mail.

Nice 2-inch pot plants, ready for shift, 10 for \$1.00.

It is a pleasing shade of yellow very floriferous, with a double row of petals, and stem 8 to 10 inches long. Sample blooms mailed on receipt of 10 cts.

Strong 2½ inch FISHERS for summer bloom, \$2.00 per 100.

BRIDES and BRIDESMAIDS, 2½-in. \$1 per 100. All A1 stock. Cash with order.

F. BURKI, Bellevue, Pa.

THE DIRECTORY

FOR 1896

IS NOW READY.

PRICE \$2.00.

AMERICAN FLORIST CO.

NEW LATE PINK FRANCIS B. HAYES CHRYSANTHEMUM

JAMES COMLEY, Originator, says:

"I have seen, grown, and watched the FRANCIS B. HAYES Chrysanthemum for two years. I think it one of the best ever raised in this country, and is a chrysanthemum that every grower ought to have."

Awarded Certificates of Merit by N. C. S., November 17, 1894; Massachusetts Horticultural Society, November 17, 1894, and N. Y. F. C., November 23, 1895.

\$4.00 per dozen; \$25.00 per 100. Ready May 1, 1896.

F. MACRAE, 1138 Smith Street, PROVIDENCE, R. I.

WILLIAM J. MARTIN, says:

"I have found the FRANCIS B. HAYES to be a remarkable variety of dwarf, robust habit, short jointed, with large dark green foliage well up to the flower. The flower is an ideal bloom and of a beautiful glistening pink of large size and a perfectly incurved, in the style of Major Bounaffon; of excellent keeping qualities; time of flowering late. It would be impossible for me to recommend it too highly for private or commercial use."

PINK IVORY,

(MISS AGNES L. DALSKOV.)

The invincible New Chrysanthemum, Strong, healthy plants from 2-inch pots \$2.00 per dozen; \$10.00 per hundred.

SPECIAL PRICES ON LARGER QUANTITIES.

M. HANSEN, New Durham, N. J.

When writing mention the American Florist.

WM. SIMPSON...

CUT OCT. 15th.

The Earliest large CHRYSANTHEMUM. Price to the

Trade, 50c. each; \$5.00 per Dozen; \$35.00 per 100.

JOSEPH HEACOCK, Wyncote, Pa.

When writing mention the American Florist.

If you are Wide Awake, Place Orders Now for

CHRYSANTHEMUMS

Pink Ivory { Identical with its parent (Ivory) except in color, rich clear pink.

Mrs. Raynor { Beautiful florists' early, pure white, round, free bloomer. Certificate at New York.

Don't be Left on Thanksgiving and Christmas Bloomers, try

Mrs. H. H. Battles. "I have grown Mrs. Battles in quantity for two years for a late variety. It has no equal in its color, being a beautiful bluish tint. It sells on sight, and I think growers will find this the greatest acquisition to their late collections." W. K. HARRIS.

"A remarkable, new and popular seedling. It has proved a good fortune to the raiser, W. K. Harris, not only for its size and beauty but from its flowering later than others."

MEEHAN'S MONTHLY.

Liberty. Certified by American Society, awarded 98 out of a possible 100 points.

"'Liberty' Chrysanthemum is a clear, rich yellow, large in size, having fine foliage, with stout and erect stem. Its lateness makes it very valuable, being the best late yellow I have seen."

EDWIN LONSDALE.

"I think you will find Liberty a good investment. It is decidedly the best extra late yellow I have seen."

ROBT. CRAIG.

"Yes, you may book me for Liberty. It is indeed a fine variety."

E. G. HILL.

Mrs. R. Crawford. "Mrs. Crawford, the finest late white Chrysanthemum I have ever raised, except Ivory, which it resembles both in form and color. It is much stronger and larger, blooming later. I believe this variety to be the gem of the year."

W. K. HARRIS.

\$2.00 per dozen; \$6.00 for 50; \$10 per 100. All others \$1.50 a doz.; \$4 for 50; \$6 a 100.

Before planting your benches send list of wants, you will not regret it, and will save money.

TUBEROUS BECONIAS, large bulbs, separate colors or mixed, \$2 per 100.

T. H. SPAULDING, 40 E. 25th St., New York.

Mention American Florist

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

OUR NEW Chrysanthemums FOR 1896

Have been fully indorsed by the Chrysanthemum Society of America.

Descriptions and prices free on application.

NATHAN SMITH & SON,
Adrian, Mich.

When writing mention American Florist.

CHRYSANTHEMUMS.

EXTRA OFFER:—I will send 100 Chrysanthemum plants of the new varieties of 1896, in twenty varieties, to one address for \$2.50 by express; \$3.00 by mail; including Edith Smith, Minerva, Mrs. H. Robinson, Dean Hole, Jeannie Falconer, Marie Louise, Miss Pullman Philadelphia, Camille d'Arville, Mme. Chas. Molin Mrs. W. A. Bryant, Miss G. Compton, Olympus, W. B. Dinamore, Gold Dust, Miss L. D. Black, The Egyptian, Beauty of Exmouth, Royal Windsor, Bun Globe, Golden Palace, G. S. Yoshike and Rose Yoshike.

MEREDITH B. LITTLE, Clens Falls, N. N.

THE COTTAGE GARDENS,

C. W. WARD, Mgr. QUEENS, L. I., N. Y.

WHOLESALE SPECIALTIES:

Carnations, Chrysanthemums,
Cannas, Geraniums.

Bulbous Begonias.

LAING'S STRAIN. In separate colors. Lilium Longiflorum, Tuberoses, Spiraeas, etc. Now on hand.

Ask for prices.

HULSEBOSCH BROS., Englewood, N. J.

When writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

Grand Rapids, Mich.

The Florists' Club met in the parlors of the Eagle April 21 and were afterward royally banqueted by Landlord Johnson, who also furnished excellent music. Profuse floral decorations were furnished by the florists, who brought of their best. Smith had incomparable La France roses, Crabb & Hunter carnations with strong stems thirty inches or more long.

President Henry Smith called for short talks by members of the club. John Schmidt talked about his specialty, new and rare plants. Alfred Harmon talked on carnations, holding that Daybreak was the best commercial sort. J. A. Creelman gave a humorous recitation on the stuffed owl, which was received with applause. Mrs. A. Chapman, mignonette, the market for it should be more cultivated; it should be grown on poor soil to possess fragrance and is impatient of damp. Wencel Cukerski put in a plea for hardy shrubbery. F. A. Chapman gave a good talk on the beauty of verbenas, an old-time favorite. Wm. Cunningham talked of gladioli; the old bulbs should be thrown out and propagate from the bulbets to get them to come true; deterioration, as it is called, is from allowing the old bulbs to be used instead of the bulbets; try this and then the gladioli will return to its old-time popularity. Mrs. Cunningham talked on asters, saying the American branching aster, owing to its size, long stems and robust habit was destined to take front place.

After an instructive three hours' session the club adjourned with an unfinished program.

EVELYN A.

Bradford, Pa.

A prospective bride placed a very liberal order with Mr. W. C. Rockwell for a lot of Easter lilies, but in the end changed her mind, compromising on \$2 worth of cut flowers. The lilies having been ordered two weeks before Easter, to be used a week after the holiday, that is, at a time when lilies were much in demand and could have been disposed of without the slightest trouble, the result of course was a loss. The moral of this incident is obvious. Get a liberal deposit and thus make your transactions binding.

W. L. Yelton is building two fair sized houses, intended for roses and carnations. M. Duell has in the course of erection a 75x12 carnation house.

Mr. W. C. Rockwell has conceived a good idea of disposing of his stock of spring plants to good advantage. Almost every country paper within a radius of 50 miles of Bradford contains his neat little ad. enumerating the collections of plants put up at certain prices. The results are very satisfactory. Homo.

MAY OFFER. Per 100
Alternantheras, red and yellow, 2½-in. pots. \$2.00
Geraniums, assorted, 2½-in. pots. 3.00
" " 3-in. pots. 3.75
" " 4-in. pots. 5.00
Smilax, 2-in. pots. 1.50
Pansies, cold frame, small \$1.00; larger. 1.50
Verbenas, from seed. 2.00
Cash with order, please.

JOS. H. CUNNINGHAM, Delaware, O.

FLOWERS at RETAIL.

We are prepared to fill orders—received by mail or telegram—for Cut Flowers, etc., to be delivered in Cincinnati and suburbs or nearby towns.

37 Customary discount to the trade.

HUNTSMAN & CO.,

615 R. e Street, CINCINNATI, O.

ROSES, TREES, BULBS, PLANTS.

200,000 Strong, hardy, nursery grown Roses.
500,000 Pot Roses, Teas, China, Bourbon, etc.
Greenhouse plants of all descriptions.

100,000 Elegant Poplars, 5 to 25 feet, Carolina Aurea, Lombardy.

ONE THOUSAND CAR LOTS of OTHER ORNAMENTAL TREES, SHRUBS, Etc.

250,000 Peach, choicest sorts.
150,000 Pear, standard and dwarf
100,000 Plum, best European and Japan.
75,000 Cherry, Morellos, Hearts, etc.
150,000 Apple, Quince, Apricot.

100,000 Nut bearing trees.
2,000,000 Small Fruits, Grapes, Currants, Gooseberries, Raspberries, Blackberries, Dewberries, Strawberries.

We occupy one and a half miles on the bank of Lake Erie. No healthier, hardier trees are grown on the continent. Catalogue and Trade List free. Lower quotations given on large lots. Write us We can do you good

42nd YEAR. 1000 ACRES. 29 GREENHOUSES.

THE STORRS & HARRISON CO., PAINESVILLE, OHIO.



BLOOMERS FOR FLORISTS.

— THINK OF IT —

CUSHMAN'S GLADIOLUS BULBS,
a sure fit at popular prices.

CUSHMAN GLADIOLUS CO., Euclid, O.

AZALEAS, The finest commercial varieties.

PALMS, Large, healthy stock, well grown.

ARAUCARIAS, From Cuttings only.

BAY TREES, Perfect shape, in all sizes.

SANDER, BRUGES, BELGIUM.

Agent: A. DIMMOCK,
106 & 108 Liberty Street, NEW YORK.
SEND FOR SPECIAL OFFER.
Mention American Florist.

SPECIALTIES

IN BEST VARIETIES.

ROSES, from 3-inch pots.
CARNATIONS, for fall delivery.
CHRYSTHEMUMS.
SMILAX. VIOLETS.

Prices low. Send for list.
WOOD BROTHERS, FISHKILL, N. Y.
Mention American Florist

THE FAMOUS NEWPORT CANNA,
"Mrs. Fairman Rogers."

Has all good points. Two Silver Medals and three First-Class Certificates awarded.

Plants, \$6.00 per dozen. Stock limited.
J. S. COWLES, Newport, R. I.

BAY TREES.

JUST RECEIVED,

ARAUCARIA, FICUS, PALMS, ETC.

Ask for prices.

L. C. BOBBINK, RUTHERFORD, N. J.
Branch of the Horticultural Co., Boskoop, Holland.

Pansy Plants.

Wintered in cold frames: Meleor,
Trimardeau, King of the Blacks, Pure
Yellow, Snow Queen, Variegated and
Striped.

\$1.25 per hundred; \$10.00 per thousand.
J. H. DANN & SON, Westfield, N. Y.

300 Acres in Nursery. 1 Acre of Glass.

Specialties for Florists.

Per 100
Cardenias, 8 inches. 8.00
Crevillea, 12, 18, 24 and 36 in. \$6.00, \$8.00, \$10.00 & 15.00
Eugenia Jambos, fruit bearing, 18-24 inches. 12.00
Camphor, 12-18 inches. 8.00
Cuava Red Cattley, bearing size, 18-24 inches. 12.00
Magnolia Fuscata, 8, 12, 18-24 inches. \$10.00, \$12.00, \$15.00, 25.00
Olea Fragrans, 8, 15, 24 inches. \$8. \$12 & 20.00
Oranges & Lemons, grafted on dwarf stock, blooming size, stocky, 10-12 & 15-18 in. \$25 & 40.00
Otaheite Orange, bushy, 10 & 12-15 in. \$8 & 15.00
Stock of above all pot-grown, ready now to ship, and in best possible condition.

Fruit and Ornamental Trees, Rare Conifers, etc. Send for Trade List and Descriptive Catalogue.

P. J. BERCKMANS.

Fruitland Nurseries, AUGUSTA, GA.
Mention American Florist.

THE WM. H. MOON CO.

MORRISVILLE, Bucks Co., PA.

Offer the following to the Trade:

ORNAMENTAL GRASSES in variety.
5,000 ROSA WICHURIANA.
HONEYSUCKLES—20,000, Evergreen, Halliana and Golden
CLEMATIS PANICULATA—10,000, one and two years old.
CALIFORNIA PRIVET—200,000, one and two years old.
FLOWERING SHRUBS—200,000, all sizes and varieties.
DECIDUOUS TREES—500,000, for streets and lawns.
EVERGREENS—500,000, large, medium and small.
Correspondence solicited in reference to anything needed in the way of nursery stock.

Mention American Florist

THE DIRECTORY

For 1896.

IS NOW READY.

Price \$2.00.

AMERICAN FLORIST CO.

The Oaks Greenhouse Co., Jackson, Mich.

Per 100
Begonias in variety, 2½-inch pot plants. \$2.50
Chrysanthemums, 2½ inch pot plants. 2.50
" " 3-inch pots. 3.00
Marguerite Daisy, R. Cuttings. 1.00
" " 2½-inch plants. 1.50
Glechoma Hederacea, R. Cuttings. 2.50
Verbena, best strain. .75
Vinca Variegata, R. Cuttings. 1.00
Cuphea, Pilea German Ivy, etc. 1.00
If to be sent by mail add 10c per 100. Cash with order.
When writing mention The American Florist.

GENERAL COLLECTION OF PLANTS.

	Per 100
Amaryllis (Empress of India), 4 and 5-inch.....	\$25 to \$50 00
Artemisia, silvery foliage.....	3 00
Achyranthes, four kinds.....	2 00
Ageratum, White and Blue.....	2 00
Cuphea, 3 kinds, the best.....	2 00
Alyssum.....	3 Co
Canna, Common, mixed.....	1 00
Coleus, all kinds.....	\$25.00 per 1000 2 50
Calla.....	\$4.00, \$6.00, 20 00
Cactus, in variety.....	5 00
Century Plants.....	\$10 to 15 00
Cyperus alternifolius.....	4 00
Croton.....	\$3 to 10 00
Cyclamen, 3 and 4 inch pots.....	8 00
Dracæna indivisa.....	\$10 to 20 00
Echeveria.....	3 00
Epiphyllum, Lobster Cactus.....	8 00
Eulalia zebrina, Zebra Grass.....	5 00
Euphorbia splendens.....	5 00
Feverfew Little Gem.....	\$2 to 3 00
Fuchsias, general collection.....	\$2.50 to 3 00
Gladiolus.....	1 50
Geraniums, all kinds.....	\$3 to 4 00
Hibiscus.....	3-in. \$3; 4-in. 5 00
Heliotrope, 2-inch pot plants.....	3 00

	Per 100
Hydrangea, 3 and 4-inch.....	\$5 to \$8 00
Helianthus.....	4 00
Ivy, all kinds.....	\$3 to 10 00
Jasminum, 3 kinds.....	5 00
Lantana, fine, best varieties.....	4 00
Lemon Verbena.....	4 00
Lobelia.....	3 00
Moon-Flower.....	\$25 per 1000 3 00
Manettia, 2 and 3-inch pots.....	3 Co
Alternanthera.....	2 50
Pandanus utilis, 2-inch pots.....	8 Co
Swainsona.....	5 00
Petunia, double and single.....	4 00
Poinsettia, 5-inch pots, 20c each.....	15 00
Pansy, every variety.....	2 00
Pæonia, assorted.....	\$4 to 12 00
Primula obconica, 3-inch pots.....	\$3 to 6 00

	Per 100
Polyanthus.....	\$3 00
ROSES, Monthly and Tea.....	3 00
“ Hybrid Perpetual.....	2 50
Vincas.....	\$4 to 8 00
Verbenas, every variety.....	2 00
Chrysanthemums, 25 varieties.....	\$2 to 3 00
Carnations.....	\$3 to 6 00
Begonias, best assortment.....	\$3 to 8 00
Ferns. We grow Ferns for the mar-	
ket, and have several houses devoted	
to their growth.....	\$6 to 10 00
Palms and Decorative Plants. Our Palms	
are in fine condition, and we make better	
inducements than ever before.	
Bedding Stock of all kinds.	
Send for Our Complete	
Catalogue.	

TREE AND PLANT LABELS. MAILING BOXES.

WILLIAMS & SONS CO.,

BATAVIA, Kane Co., ILL.

FORGET-ME-NOT

BLUE PERFECTION.

As a cul flower, read what two of the oldest and best known houses of Philadelphia say:

MR. ALBERT KNAPPER:—This season we have worked up quite a little trade on Myosotis, and consider it a good cut flower for the retail florist, which I think will grow more in favor.

SAMUEL S. PENNOCK.

MR. ALBERT KNAPPER:—We take great pleasure in recommending a good article, and can say that your Myosotis is a fine, large, strong flower, of a grand color, and the best we have seen for a great while.

CHARLES FOX.

A GOOD INVESTMENT.

A GOOD KEEPER.

A GOOD SELLER.

EASILY HANDLED.

NO DISEASE.

ORDER NOW.

Has averaged at the wholesale market this winter from \$1.50 to \$2.00 per 100 flowers. Treatment similar to Violet Marie Louise or Carnations, from 40 to 50 degrees.

PLANTS, 2-in. pots, ready now, per 100, \$5.00.

ROOTED CUTTINGS, per 100, \$3; per 1000, \$25.

Cash with order please, or C. O. D.

ALBERT KNAPPER, Frankford, Phila., Pa.

PANSIES.

HERR'S COLD FRAME PANSIES, the strain that has made them famous. Per 100, \$1.75 and \$2; per 1000, \$12.50 and \$15.

PLANTS—Alternanthera, red and yellow, 80c per 100; \$6.00 per 1000. Simple's and other fine florists' ASTERS, mixed, at 65c per 100; \$5.00 per 1000.

COLEUS.

ROOTED CUTTINGS of red and yellow; also fine assortment of fancy, at 75c per 100; \$6.00 per 1000.

ALBERT M. HERR,

LANCASTER, PA.

L. B. 496.

Fine Anthemis coronaria superba fl. pl.
\$2 50 per 100.

3½-inch pot ROSES, our selection... \$5.00 per 100
MOONVINE..... \$3.00 per 100
CRIMSON RAMBLER..... \$5.00 per 100, \$40.00 per 1000

Write for prices on anything you want.

NATIONAL PLANT CO.,
DAYTON, OHIO.

VINCA MAJOR VARIEGATA,

in 4 and 4½-inch pots.

FIRST SIZE..... \$10.00 per 100

SECOND SIZE..... 8.00 per 100

In 2-inch pots..... 2.00 per 100

C. LENGENFELDER,

Berleau and Western Avenue, CHICAGO.

Mention American Florist.

ROSES. ROSES. ROSES.

All the best New and Standard varieties for Winter forcing, or Summer blooming in the open ground, in Teas, H Teas, Monthlies, Hybrid Perpetuals and Climbers. A grand stock of Mrs. P. Morgan now ready. Also

All the New and Choice **CHRYSANTHEMUMS** in fine condition; and in

CARNATIONS an extra fine lot ready for immediate planting, in fine, strong, transplanted stock of nearly all the leading varieties.

WRITE FOR SPECIAL PRICES ON LARGE LOTS TO

JOHN N. MAY, Summit, New Jersey.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fine pol plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, \$1.00 per 100; \$8.00 per 1000.

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PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.

WE ARE THE LARGEST GROWERS OF VERBENAS IN THE COUNTRY. OUR PLANTS CANNOT BE SURPASSED.

New Carnation "Crimson Sport."

Large flower, finest velvety crimson, best keeper. Plants hardy, productive, free from disease. A good market variety. Send for list of rooted Carnation cuttings.

ROOTED CUTTINGS, \$1.50 per dozen; \$10.00 per 100; \$60.00 per 1000.

J. L. DILLON, Bloomsburg, Pa.

COLEUS.

HEADQUARTERS FOR ROOTED CUTTINGS

	Per 100	Per 1000
Golden Queen, the only yellow, and Crim-		
son Verschaffeltii.....	\$ 6.00	\$.75
Coleus in variety.....	5.00	.60
Cuphen platycentra (Clear Plant).....	6.00	.75
Ageratum, blue and white.....	6.00	.75
Feverfew Little Gem.....	10.00	1.50
Fuchsias, to name.....	12.00	1.50
Heliotrope, to name.....	8.00	1.00
Salvia splendens.....	10.00	1.25
Rose Geranium.....	1.50	
Alternanthera p. major and aurea nana.....	6.00	.75
Heliotrope, 2½-inch pots.....	2.00	
Mt. of Snow Geranium, 2½-inch pots.....	2.50	
Vinca variegata, 2½-inch pots.....	20.00	2.50
Selection of sorts to remain with us.		

Cash with the order.

J. E. FELTHOUSEN, Florist, Schenectady, N. Y.

Mention American Florist.

	Per 100	Per 1000
25,000 rooted Coleus, Verschaffeltii, Golden		
Gem, etc.....	\$.50	\$ 4.50
Carnations, Wm. Scott, Daybreak, Albert-		
ini, Tendresse, Helen Keller, Emily		
Plerson, Lizzie McGowan, Silver Spray.		
These plants are extra strong, from 2-in.		
pots in cold frames.....	3.00	25.00
Verbenas, fine plants in bloom, 2½-inch.....	3.00	25.00
Roses, American Beauty.....	4.00	35.00
" Bridesmaid and La France.....	3.00	25.00
All plants guaranteed A No. 1.		

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BASKET PLANTS.

A choice assortment from 2½-inch pots, suitable for filling vases and baskets, price \$2.75 per 100. Further particulars on application.

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E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

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Syracuse, N. Y.

The heat of the past week has been unprecedented, the glass several days registering 85° in the shade. This has caused all outside stuff to start into growth, which will not be advantageous to nurserymen, for the week before very little could be lifted, as the frost was not out of the ground. Now every one is in a rush to get plants and trees. Flowering stuff in the houses has not benefited by the heat.

The object lessons given by members of the Central New York Horticultural Society was not so largely attended as could be desired, the heat preventing many from sitting in a hot room for two hours. Mr. Campbell's object lesson on potting plants and sowing seeds was very able and instructive; he showed some remarkably fine plants of hybrid calceolarias which would be hard to duplicate both in size of plants and flowers. Mr. R. Bard's discourse on watering was interesting and instructive. H. Youell spoke on window gardening, which he illustrated by growing plants.

The severe winter has caused great damage to fruit trees and grape vines, many being entirely ruined. H. Y.

Warren, Pa.

Mr. D. Offerle has his hands full, pushing the building of his four additional houses to completion. Of these, two, intended for roses, will cover 150x20, one for carnations, 150x26, and one for violets, 150x10. The houses are well planned and are being most substantially built, double thick butted glass and a ventilating apparatus of Mr. Offerle's own device being some of the features introduced. The plant throughout will be heated by hot water.

Mr. W. M. Lott intends to build an additional goodsized chrysanthemum house.

Considerable funeral work during the past week has kept the florists quite busy.

There is a rumor going the round that an itinerant florist from "somewhere" is about to open a store and try his luck in Warren. "The more the merrier" as Mr. Lott remarked. HOMO.

PLEASANT HILL, MO.—On April 16 the employes of Geo. M. Kellogg presented him with a fine silk hat, it being the 58th anniversary of his birthday.

P

PALM

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NOW ON HAND FRESH CROPS.

	per 100	per 1000
Arcaea latescens	\$1.25	\$10.00
Cocos Weddelliana	1.50	12.50

The import of this variety did not turn out very satisfactory; above prices are for selected seeds.

Latania borbonica	.35	2.50
Livistona rotundifolia	2.75	25.00

All Chamaecrops, Phoenix and many others now in stock. A full list on application.

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VICK'S WHITE BRANCHING.....	per oz.	\$2.00
" PURPLE	"	1.50
" ROSE	"	1.50
SEMPLE'S PINK	"	.75
ZIRNGIBEL'S DOUBLE WHITE	"	1.50

Trade packet of any of the above, 25 cts. or the set of five varieties, one trade pkt. or each, \$1.00.

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The American Florist Company's D·I·R·E·C·T·O·R·Y·

— OF —
FLORISTS,

NURSERYMEN

AND SEEDSMEN

— OF THE —

UNITED STATES AND CANADA,

— AND —

REFERENCE BOOK,

FOR 1896,

IS NOW READY....

CONTENTS.

The names and addresses of all the Florists, Nurserymen and Seedsmen in the United States and Canada, arranged alphabetically in States and Provinces, the exact branch of the business each is engaged in being indicated by the following

..... KEY

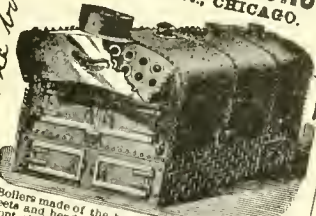
- F** Florists who do a general local trade, having greenhouses and retailing the product of same.
- G** Florists who grow cut flowers or plants for the wholesale market and who do not sell at retail. Almost always within a short distance of a large city.
- R** Retail store florists who have no glass of their own. Nearly always in the large cities.
- D** Wholesale commission dealers in cut flowers.
- N** Nurserymen.
- X** Those who are both Nurserymen and Florists.
- S** Seedsmen.
- Z** Those who are both Seedsmen and Florists.
- A** Those who combine all the branches, viz.: Florists, Nurserymen and Seedsmen.

..... ALSO

- A list of Trade Organizations, both National and Local, with names and addresses of principal officers, time and place of meetings and date of organization.
- Statistics regarding Floriculture, the Nursery Industry and Seed Growing from the last U. S. Census report.
- A list of firms in the trade that issue catalogues, with a key indicating the prominence of each branch of the trade in same.
- A list of leading Cemeteries in which attention is paid to Ornamental Horticulture.
- A list of leading Park Superintendents and of the Botanical Gardens of the United States.
- Seasonable Hints for the year about the practical work of the Florist, written by Wm. Scott, giving instructions not only when to do certain work, but how to do it most effectively and economically.
- A complete alphabetical list of Roses in commerce in America, brought up to date and of incalculable value for reference.
- Similar lists of Chrysanthemums, Carnations and Cannas.
- Historical sketches to date of the Society of American Florists, American Carnation Society, National Chrysanthemum Society of America, Florists' Hall Association, American Seed Trade Association and American Association of Nurserymen.
- A list of Leading Horticultural Societies.
- Full and accurate information about Express and Postage rates.

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This is the boiler

Boilers made of the best of material, shell, firebox, sheets and heads of steel, water space all around (front, sides and back). Write for information.

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Respectfully
Geo Wittbold
Per S.W

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TELEPHONE 99

324 CHARLOTTE STREET,
ASHEVILLE, N. C.

Kroeschell Bros Co.,

Chicago, Ill.

March 20, 1896.

Gentlemen:--

In reply to yours of the 11th: So far we are perfectly satisfied with the boiler bought from you last Summer. We are only heating about half the space that you say it will so we have not given it a very severe test, but it has saved us at least 15 per cent of fuel over last Winter. Our foreman says that the saving is nearer 20 per cent than 15, and he thinks that the saving will be even greater when the boiler is properly loaded.

Very truly yours,
Idlewild Floral Co

SEE OUR ADVERTISEMENT, PAGE 1099.
.... Write for Catalogue.

KROESCHELL BROS. CO.

Springfield, Ill.

Easter sales were an average of 10% larger than last year. Prices about same as last Easter, except on roses and carnations, which were a trifle higher for the best stock. Supply was ample except roses and carnations, which were a trifle short. Quality of cut flowers averaged better than last year.

With the exception of lilies the sales of plants were not equal to last Easter. There was an increase in the call for pot lilies, and for good cut carnations, roses and violets.

The lack of demand for bulbous flowers, both potted and cut, was very noticeable. Customers would pass fine hyacinths, tulips and narcissus and order a lily. It was the same way in cut flowers. They would stand before vases of handsome tulips, daffodils and valley and ask for roses or carnations. When the supply of the latter was exhausted they often would not buy the bulb stuff, and when they did it would be but half what they would have invested in roses or carnations.

BROWN & CANFIELD.

Hagerstown, Md.

Quite a few changes in the way of remodeling and extending their plants are being contemplated by both Mr. Wm. Bester, and Mr. Henry Bester. The former, besides remodeling his entire plant upon an up-to-date scale, will erect two additional houses, one 100x20 for chrysanthemums and the other one 75x16 for carnations, while the latter will build two additional houses, each 100x20 for roses and carnations, intending likewise to give his entire plant a thorough overhauling.

Mr. Wm. Bester's flower store on Washington street, under the Hamilton Hotel, has proved to be the long-felt want of the town. Miss Mary Bester is in charge of the store.

Misfortunes never come singly is an old saying. Aside of the business reverses with which Mr. and Mrs. Dayhoff have recently met, the death of their daughter, a seventeen year old girl, has cast a gloom upon their home and both parents are inconsolable. Mr. and Mrs. Dayhoff have the heartfelt sympathy of all their friends.

HOMO.

Springfield, Mass.

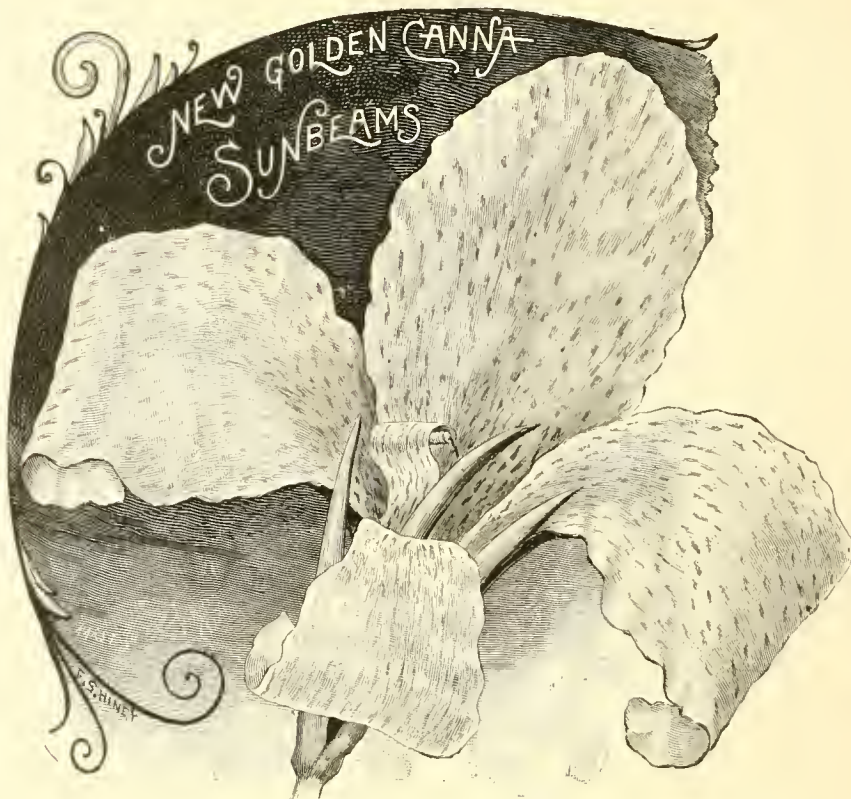
The sweet pea exhibition of the Hampden County Horticultural Society will be held July 28 and 29. Prizes are offered for sweet peas in twenty-one classes. Prizes for other flowers are offered in thirty-one classes.

The annual exhibition of fruits and vegetables will be held October 6 and 7.

The chrysanthemum exhibition, to be held November 17 to 19, is announced as an "International Exhibition." The international feature is covered by prizes of \$10 for the best twenty-five blooms in twenty-five distinct named varieties, from each state and territory in the Union and the Canadian provinces, a total of fifty-seven such prizes.

CHATTANOOGA, TENN.—Mr. Geo. M. Bradt has been appointed director of the horticultural department of the Tennessee Centennial Exposition to be held here next year. The horticultural building will occupy one of the most conspicuous sites on the grounds and will have 18,000 square feet of space. A chrysanthemum show will be held in the building next November, at which time it will be dedicated.

SUNBEAMS CANNA.



Altogether the best yellow yet produced. Exceedingly dwarf, only two feet, splendid foliage, wonderfully free and the flowers are of great size and substance. Flower heads large, full and compact. Almost clear yellow and very bright and clean in color. In effect, it is absolutely pure, brilliant yellow. Eldorado, Florence, Vaughan, etc., are not "in it" with Sunbeams.

Roots, dry or started, \$2.00 per dozen; \$15.00 per 100.

OTHER GOOD CANNAS.

All good strong roots in perfect condition.

	100	1000		100	1000
Alphonse Bouvier, - - -	\$2 50	\$20 00	MAD. CROZY, - - -	\$2 50	\$20 00
Capt. P. de Suzzoni, - - -	5 00	40 00	Mrs. Sarah Hill, - - -	3 00	25 00
Chas. Henderson, - - -	3 50	30 00	Paul Bruant, - - -	3 50	30 00
Chevalier Besson, - - -	3 50	30 00	Paul Marquant, - - -	2 50	20 00
Count Horace de Choiseul, -	3 50	30 00	Queen Charlotte, - - -	10 00	
Flamboyant, - - -	2 50	20 00	Secretary Stewart, - - -	3 00	25 00
Francois Crozy, - - -	2 50	20 00	William Elliott, - - -	2 50	20 00
Henry A Dreer, - - -	3 50	30 00			

THE LOVETT COMPANY, LITTLE SILVER, N. J.

THE WATER GARDEN.

Now is the time to plants all Hardy Aquatic and sub-Aquatic plants. Our collection embraces the newest, choicest and best in cultivation, suitable for pond, lake or fountain basin. Bamboos, Giant Reeds, Grasses and Hardy Perennials; also a grand collection of newly imported Japanese Mountain Paeonies, magnificent for all styles of planting in Parks and Gardens.

Dreer's Garden Calendar for 1896, describing everything, mailed free to those interested.

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Marie Louise Violets

Rooted Runners, \$4.00 per 1000.
Cash with orders.

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CLEMATIS JACKMANI.

Nice young plants for potting or planting up for fall sales.

\$1.00 per dozen; \$8.00 per hundred.

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HARRISBURG, PA.

The Directory

For 1896

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Manufacturers of

**Clear Cypress
GREENHOUSE
MATERIAL,**

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WHOLESALE
FLORISTS' SUPPLIES ONLY,**58 N. 4th Street,
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Special price for your wants on application.

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2 AND 4 DOMINICK STREET,

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"ROSE LEAF"

Extract of Tobacco

INSECTICIDE!

PRICE: 1 gallon can, \$1.50; 5 gallon can, \$5.00.

Applied either by vaporizing or by syringing. Try it.

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Will pump water from any source, and force it to any height and distance. Simple, safe and free from care. Will burn any kind of fuel. Are supplanting all other means of supplying water on farms, country and city residences, dairy and stock farms, etc. Send for catalogue.

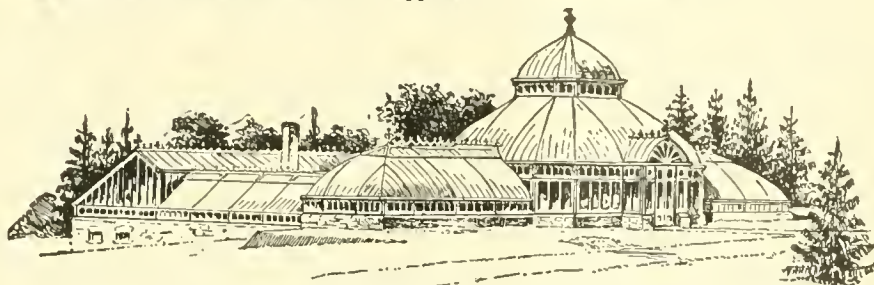
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GALAX LEAVES,**

For Decorating and all Florists' Designs.

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Horticultural Architects and Builders,
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Plans and estimates furnished on application.



Largest builders of Greenhouse Structures. Six highest Awards at World's Fair.

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which is absolutely perfect for modern greenhouse construction.

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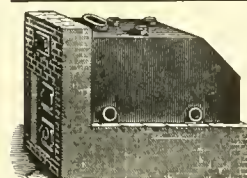
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HEATING.****MYERS & CO.**1518 & 1520 S. 9th St.
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Send for catalogue and price list.

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75c. per quart; \$1.25 per ½ gallon; \$2.00 per gallon; \$9.00 for 5 gallons.

HENRY F. MICHELL,
SEEDSMAN.

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Reports,
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FOR 1896

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PRICE \$2.

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News Notes.

VANDERCOOK, ILL.—W. A. Duke is just starting in the florist business here.

MANCHESTER, O.—Edw. Bradley has just gone into the florist business at this place.

WESTFIELD, MASS.—George Mieliez is enlarging and remodelling his store, and a conservatory has been added.

STUART, IOWA.—E. P. Clowse, who started in the florist business here last year, intends to enlarge his glass this season.

YONKERS, N. Y.—On the morning of April 7 the store of F. Milliott was destroyed by fire. Loss estimated at \$900, insured for \$200.

HARRISBURG, PA.—Carl Taube has purchased the stock and leased the greenhouses of Logan E. McClintock and will continue the business at 1021 to 1031 South Cameron street.

WELLINGTON, O.—Mrs. G. W. Monosmith has sold her florist business here to W. H. Townsend, who will take possession June 1. Mr. Townsend intends adding to the establishment quite extensively.

WARREN, OHIO.—Mrs. Annie E. Hoyt now conducts the florist business formerly controlled by her husband, A. T. Hoyt. Mr. Hoyt is devoting his attention entirely to his system of greenhouse heating.

PROVIDENCE, R. I.—An interesting paper on parks and park-ways was read before the Horticultural Society on the evening of April 17 by E. H. Burlingame. There was an interesting display of cut flowers from a number of local growers.

NEW CASTLE, PA.—The firm of Paul Butz & Son, florists and nurserymen, established in 1851, was dissolved April 1, and the new firm of Wm. T. and Frank P. Butz will continue the business at the old stand, as heretofore, except on a larger scale.

BATAVIA, ILL.—P. G. Pearson & Co., who are starting in the florist business here have two houses of equal span, one 8x60, the other 16x60, and are building two 20x110 short-span-to-the-south and a propagating house 8x75. They intend to grow roses, carnations and violets for wholesale and retail trade. They have their boiler in and water connections made.

Jones, McDuffee & Stratton, Plant Pots and Pedestals

of all grades, sizes and values, direct from the best Potteries of England, France, Germany, China Japan and the U. S.

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120 Franklin St. cor. Federal, Boston, Mass.

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We Manufacture all kinds of Flower Pots, etc.
Making a Specialty of

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Standard Flower Pots.

Send for our new price list, with extra discounts. All of our Pots from 7-inch and upwards have our Patent Excelsior Bottom, which is a great advantage as it insures perfect drainage.

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Randolph Ave. and Union St., Jersey City, N. J.
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STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere. Our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

SYRACUSE POTTERY CO., 403 North Salina Street, SYRACUSE, N. Y.



Standard Flower Pots.

OUR POTS ARE OF THE BEST QUALITY.

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For Greenhouses, Conservatories, Graperies, Hotbeds, and all other purposes, at Lowest Rates.

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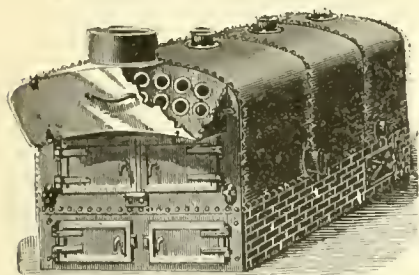
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HANDY SASH LIFTER.

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GEO. W. HAMILTON, 176 Sidney St., Dorchester, Mass.

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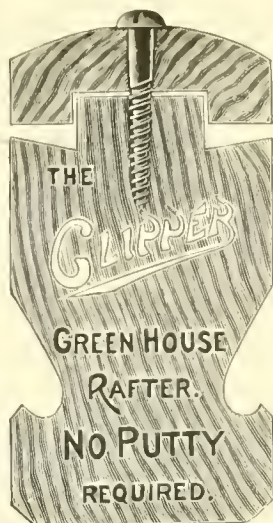
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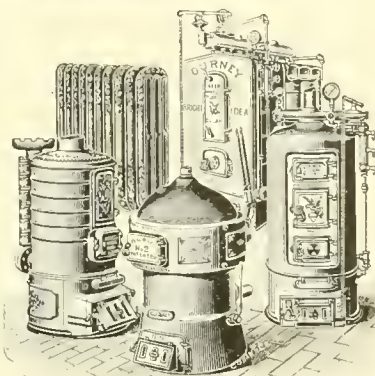


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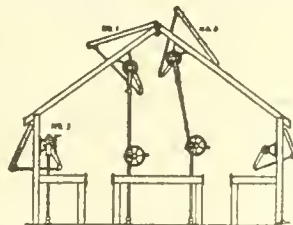
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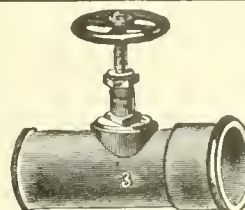
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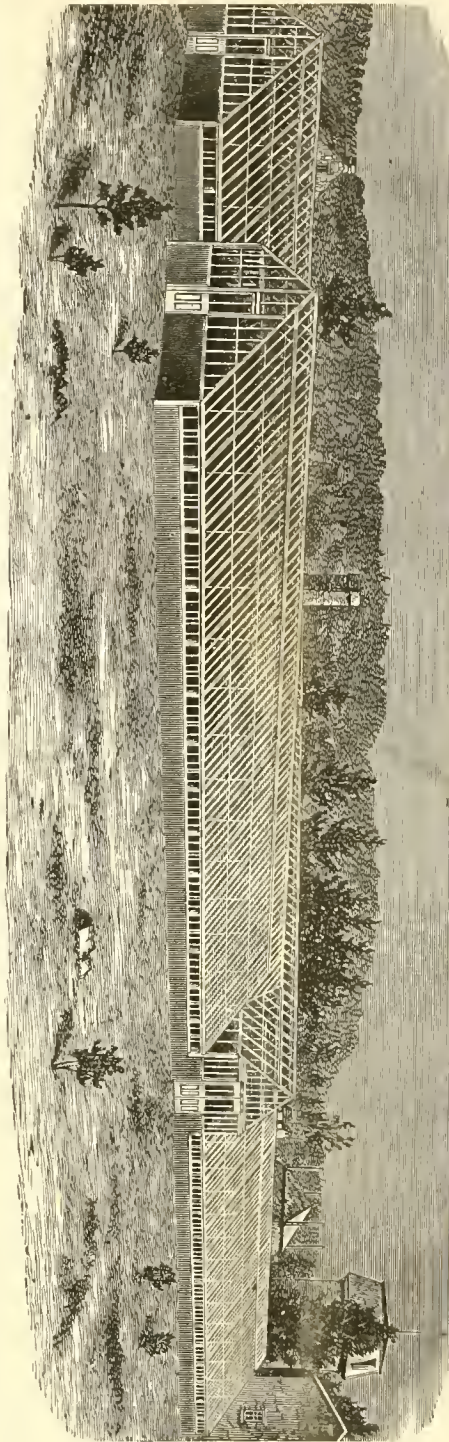
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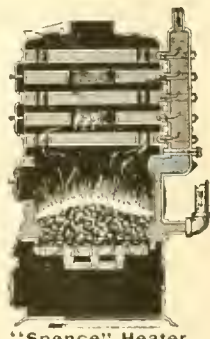
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Vol. XI.

CHICAGO AND NEW YORK, MAY 9, 1896.

No. 414

THE AMERICAN FLORIST

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The twelfth annual meeting will be held at Cleve-
land, O., August, 1896.

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Oswego, N. Y.

W. H. Workman intends to extend one of his houses, built last spring, having in view many other less extensive improvements about his entire plant, which will comprise about 6,000 feet under glass. Mr. Workman has had exceptional success with his carnations.

Mr. C. Becksteadt has added another good-sized house to his plant.

Business has been rather quiet of late, though the prospects for a good spring trade look bright and encouraging. The sale of plants in this section, owing, perhaps, to the unsettled condition of the weather, does not fairly commence before the middle of May. HOMO.

OWING to an unfortunate error the date line of the issue of the preceding week appeared on part of last week's edition. The date should have been May 2 and the number 413.



Orchid Notes.

Since most of the different species of cattleyas, laelias and other similar orchids have left us to prepare for a fine show next fall and winter there are comparatively few of that tropical family at present to be mentioned. Cattleya Aclandiae does not seem very particular in time of blooming as I have had it in October and at present it is again in fine bloom. Laelia xanthina, a nice yellow orchid, Phaius Wallichii and P. Bernaysii, both considerably larger in flower than P. grandifolius, Leptotes bicolor and L. serrulata; Epidendrum aurantiacum with fine cluster of bright orange blossoms, the old but always good Chysis bracteescens, Coelia macrostachya, Oncidium sphacelatum with a half dozen long yellow flower spikes; Dendrobium Findlayianum, D. chrysotoxum and D. albo-sanguineum, Odontoglossum Rossi and a few good bletias help a little to decorate the show house. Epidendrum Godseffianum, with immense bulbs and flower spike some four feet long with over a hundred blossoms in coming on finely.

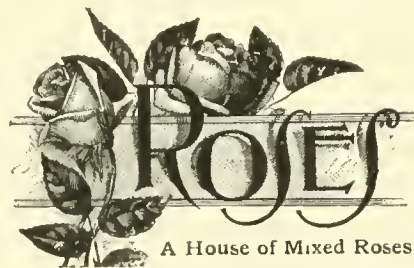
Eulophiella Elizabethæ, the Madagascar orchid about which two of the leading orchid importers in Europe had quite a controversy (see Lindenia, 1893, page 22 and 46, also plate 1892, number 325) is at present in full bloom, and has a flower spike about one foot long with eighteen white and pale rose charming flowers, which apparently remain in their beauty for several weeks. The plant is a good grower and does best in the warm house, in pot filled with potsherds and fern peat; it was introduced only about four years ago and named in honor of Queen Elizabeth of Roumania, also known under the literary name of "Carmen Sylva."

The cypripedium family produces a few flowers all the year around. At present I find in bloom C. Boxalli alb. marg. Pearcei, C. Dominyanum rubescens, C. Victoria Marie, a very robust grower, C. Haynaldianum, producing some five or six flowers on each stem, C. vexillarium, a little gem, C. Druryi and many others.

By the way, will you allow me to make a few remarks on nepenthes? The pitcher plant as it is popularly called is of course not a marketable plant, but to the amateur it offers a great deal of pleasure and by the public it is always admired, as I observed at the last chrysanthemum show in November, for its peculiar shaped pitchers, which it produces in various colors and shapes at the end of each leaf. The

culture is comparatively easy, requiring a warm but very moist temperature of about 70° in winter and 80° in summer. It is not too late to make cuttings from last year's well-ripened shoots in sharp sand and closed glass frame; when rooted, which will take about 5 to 6 weeks, plant in baskets filled with fern peat and sphagnum mixed, add a few pieces of charcoal. Young plants thus treated will show five to eight pitchers next fall. I will only name of the over thirty to forty species in cultivation as good growers Chelsoni, Mastersiana, Henryana, Morganæ, Dominyi, hybrida maculata, Rafflesiana, Outramiana, phyllamphora pallida.

EDWARD G. UHLEIN.



R. L. G., Kentucky, has a house 100 feet long, the center bench of which is to be planted with roses, Perles, Bride, Bridesmaid and American Beauty. "With fire heat there is a difference in temperature between the two ends of 10 degrees. How should the roses be planted to secure the best results?"

Unless the ground is very much higher at one end of the greenhouse than the other, there is no good reason why there should be so much difference in the temperature, that is if hot water or steam is used for heating. The arrangement of the pipes is probably faulty, in which case it will be economy to dispense with some of the radiating surface at the warm end, or else add to the piping at the cool end, whichever may seem more desirable, and thus more nearly equalize the temperature of the whole house. If this plan is not feasible then the only remedy as far as I can see is to plant as you suggest. If it is possible to substitute Meteor in place of American Beauty, then the difficulty is entirely overcome. Meteor is at its best in a night temperature of 65° to 62°. Bride and Bridesmaid 56° to 58°. It might not be out of place to add that Beauty is generally the most unsatisfactory rose for a beginner to take hold of, and more particularly so if planted in a mixed house. ROBT. SIMPSON.

Herbaceous Plant Notes.

The early spring this year has adorned our herbaceous borders somewhat ahead of the usual time, and we are not sorry over it. The past severe and continuous winter has not, as a rule, hurt anything

in the herbaceous line. Although we have used no covering of any kind in any part of the borders, everything stood well, excepting one small low and poorly drained spot, where toward spring the melting snow for some days caused a pool of water to stand over the plants, and under such circumstances any of our hardiest perennials would suffer severely, so we lost a very fine patch of *Lychnis plenissima semperflorens* which had been in constant bloom all of last spring and summer, and only a few plants out of the lot were saved. Beds of bulbous stuff have been in full bloom since the middle of April, snowdrops, crocus and scillas have been out even before that date. *Narcissus* of many varieties are in full bloom and make a grand show. Hyacinths and early tulips also were two weeks ahead of their usual time, and there is a slim chance this year of saving even the latest flowering tulips for Decoration Day unless we should get continuous cool weather during the month of May, for they are now pushing their flower buds ahead fast. Even the Parrot tulips on the northside of buildings are beginning to show color at this early date.

One of the loveliest sights in early spring is a large thickly planted patch of *Iris pumila*, mostly the dark blue variety, which was in bloom in a sheltered position before the snow had fairly disappeared from the more exposed places, and they are in full flower yet and can be seen from a long distance away.

Arabis albida, with its large clustered heads of pure white flowers soon followed the example of the early iris, and hepaticas came out with their numerous anemone-like blue or pink flowers, peeping out between the delicate tinted young deep bronzy foliage. *Primulas* of various kinds followed and are at present a perfect mass of bloom, many shades and colors are represented ranging from the purest white or palest yellow into the darkest velvety brown and purple. *Pulmonaria maculata* and *P. officinalis*, with their changing purple and pink flowers, are making a good display where planted in large masses, and after flowering the prettily spotted foliage of the first named will be an attraction for all summer. Violets of different varieties were out in full blast by the latter part of April, and are continuing to give a succession of bloom. *Plox subulata*, the white and the pink flowered, were a perfect mass of bloom a week or more ago, and there is hardly another low, ground-covering plant to be found which flowers so freely in early spring and keeps so well covered with bloom for so long a time, at the same time requiring so little attention. *Plox amena* is only a few days later, is of a deeper and more vivid shade in color compared with the pink *P. subulata* and grows somewhat higher, flowers from now to late in summer. It is not so densely covered with bloom as the former but of much longer duration. The *Dicentra spectabilis* used to be a favorite plant years ago, and on account of its early flowers should be planted largely everywhere.

Polemonium reptans is beginning to send forth its pretty pale blue flowers, as are also the earlier varieties of the hardy evergreen iberis, and the patch of *Daphne Cneorum* is a sheet of lively pink from a distance, the plants being full of flowers in all stages with a multitude of undeveloped buds to come out later on. It never suffers the slightest injury from the severest cold and needs no protection in the most exposed position. The *Anemone sylvestre* is sending up its long-stemmed



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NEW YORK STORES AT EASTER.

large pure milky white flowers borne well above the dense mass of dark shiny and much divided foliage. This lovely plant can be highly recommended both for beds, the garden or the border, and also as an exceedingly useful cut flower. *Papaver nudicaule* in all colors is beginning to bloom, and where large patches or beds of it are planted is making a grand show. Few plants can compare with this gay colored flower, blooming as it does from early spring until nearly midsummer, when something else planted over or among them should take their place. *Paeonia tenuifolia*, both the double and single form, are also in bloom, the dark colored flowers among the much-divided and lacerated foliage present a

most pleasing appearance in a large bed, and I consider it a most ornamental plant whether in bloom or not, for the foliage in itself is so clean and attractive throughout the season.

Epimedium pinnatum is a very pretty early spring blooming variety with elongated racemes of deep bright yellow, four-petaled flowers, loosely arranged along the erect pointed spike, which attains a height of 10 to 12 inches. The foliage is nearly round with a point and finely serrated on the edges, tripinnate, set on thin and wiry stalks. It attains a height of one and a half feet when well established. The root stock is creeping and travels under ground, forming in time a loose patch of plants admirably



ONE OF STUMPP'S WINDOWS.



SIEBRECHT & WADLEY'S



GREENHOUSES IN REAR OF SIEBRECHT & WADLEY'S STORE

NEW YORK STORES AT EASTER.

adapted either for rock work or to plant among hardy primulas or hepaticas.

Doronicum caucasicum has been in blossom for several weeks, earlier than usual, a very showy border plant when large clumps are planted, the bright yellow flowers 2 inches in diameter, are profusely produced for a month or more, and the plant forms a clean and compact bush. The flowers also sell well in a cut state and are good keepers. *Doronicum plantaginifolium excelsum* has now expanded its first flowers, which are very large, nearly 4 inches across, of a deep shiny yellow color; it is a much taller grower than the foregoing variety, attaining a height of 3 to 5 feet with generous treatment, and will then usually continue to flower until October. A most desirable, elegant and free growing plant. *Doronicum Clusii*, with flowers of a much deeper yellow, of good size and substance, forms a neat compact bush about 2 feet high, blooms from early spring until June generally. All *doronicums* are free growing and easily managed plants, useful in any place and do well in any ordinary garden soil.

Dicentra eximia, with its pinkish drooping flowers, has been out since April 20, and will continue in good shape all summer. This plant deserves to be planted more largely; it is of compact growth with pretty fern-like foliage and may be planted in dry places fully exposed to the sun. It grows to the height of 12 to 20 inches, according to the condition of soil and the exposure. The compact habit and dense growth of foliage commend this plant for an underground or base of taller loose growing plants, such as *Hyacinthus candicans*, the white or very pale flowering *Delphinium sinensis* or the hardy *Gladiolus communis* and others.

Caltha palustris nana fl. pl., in bloom now, resembles a large very double ranunculus, deep golden yellow in color, a most desirable plant, and although the wild single form is found mostly in moist and swampy places, it will do admirably well in comparatively dry borders and in well enriched beds, where it will grow to a height of 10 to 12 inches. The foliage is dark shiny green, roundish and pointed, the brilliant colored flowers are produced up to June, and no garden should be without it.

Fritillaria pyrenaica, a perfect gem, comes into bloom with us in early spring and has been out for some days, though in Europe the flowers do not generally appear until the latter part of May or June. It is perfectly hardy without the slightest protection, and forms a clump or cluster of bulbs if left undisturbed for several years, flowering freely every spring. The large flowers are terminal, borne on erect deep stems, bending over at the tips; they are of a bluish purple on the outside of the petals and yellow tinged with green on the inner side, shaped like a drooping bell two inches or more in depth. The foliage is flag-like, strap-shaped and considerably shorter than the flower stems, which attains a height of 12 to 18 inches.

Globularia trichosantha is now pushing up its light blue flower heads in profusion, a very desirable, free flowering plant for the border, growing to a height of about 8 inches. The leaves are narrow and pointed, lying almost close to the ground, and of a dark glaucous green color. It continues to bloom until mid-summer and does better in partial shade.

Puschkinia (or *Adamsia*) *libanotica* was in bloom at the same time with scillas in early spring. The flowers are produced on loose racemes, in shape they much

resemble those of the scillas, but are larger and pure ivory white with pale blue center stripes down each side of the perianth. It is one of our handsomest small spring flowering plants, and increases rapidly. The foliage is dark green, about 6 inches long, one-half inch wide and in midsummer dies down entirely. The plant thrives well in ordinary good garden soil and if a shaded position can be provided the flowers will last for a long time in perfection, but it does well in any situation.

Rochester, N. Y.

J. B. KELLER.

Aquatics.

The advent of the sacred lotus as a hardy plant has stimulated a great many people to grow aquatics, and they are generally quite successful. For a long time, and even yet to a great extent, there seemed to be considerable hesitation about the supposed trouble and expense, but as a matter of fact the cultivation is extremely easy, provided there is a water supply.

There are a great many beautiful and perfectly hardy species which flower for quite long periods during summer, many of which may be considered sub-aquatics, which are often natives and not at all exacting about a water supply. Like frogs they are amphibious. The *Nelumbium* itself will often spread into moist ground upon which there is no water. The aquatic *Ranunculus* are of the same character, and these latter are a good deal neglected, although such as *R. aquatilis*, *R. pantothrix fluviatilis* are hardy and interesting, and *R. Lyallii* is handsome, but tender at the north. The *Nymphaeas* are naturally floating plants, and the *Nuphars* nearly as much so, yet neither resent a considerable reduction of the water level now and again. As for the buck beans, *Stratiotes*, *Pontederias*, *Sagittarias*, *Butomus*, *Typhas*, blue and yellow iris and several others, they will be content if the soil is wet, and will have no objection to an occasional heavy drink. A water supply is necessary for aquatics, but I wish to point out that a mill race is by no means essential. Anyone who has city water and a hose can manage aquatics easily.

As for the best way to arrange them that also is simple. The trouble is that people want to run a new thing into the ground and do too much; when they succeed with the hardy ones they go for the tender ones before they are well prepared.

With a shrubby background it is not difficult to so arrange aquatics that they will take the place of flower beds; on retentive easily puddled clay soils a shallow pond of circular or other shape is all that is needed in many cases, but if the sub-soil is very poor a barrowful of good rose soil on the bottom will set all to rights in that respect, and I may add that a well manured soil makes an excellent puddle. If a lesser space is imperative the half of one oil barrel which has been burnt out will, if sent to the depth of six or nine inches below the grass, permit of some shelving of the soil towards the rim, and some overflow of water over the saucer shaped depression, in the center of which the tub containing soil, plant and water should be sunk.

Half a dozen oil barrels cost perhaps \$5; cutting in half depends upon who does it. Digging a dozen holes and shelving a wider circumference down to the rim of the tubs may possibly cost another \$5. The soil and the plants also may vary in price, but for an outlay of \$25 upwards it is entirely possible to have a



FLEISCHMAN'S EXTRA STORE.



ALEX. MCCONNELL'S.

NEW YORK STORES AT EASTER.

handsome summer aquatic garden, with every species a feature. For compact growing species of course the tub sunk to the level of the grass is sufficient, but all the *Nelumbiums*, *Nymphaeas*, *Nuphars*, etc., will appreciate the opportunity to spread. It is hardly necessary to go into a list of suitable species; they are abundant, and adapted to all purses and tastes. The hardy kinds are becoming as beautiful as any, but as I have given a dozen beds I may mention a dozen hardy species and varieties as follows: *Nelumbium speciosum* and its white variety, *Nelumbium luteum*, *Nymphaea alba* in its best variety, *N. a. rosea*, *N. tuberosa flavesens*, *N. Marliaca rosea*, of which there are several forms at various prices; and if possible *N. elegans*, of which there are both yellowish white and purplish white, and even bluish forms. I don't know if these are yet in cultivation, but they are natives of New Mexico and Texas, and

have been known in herbariums for a long time. For a *Nuphar*, our own spatter dock is about as good as any—unless a preference is given to the little Scotch *N. pumila*. *Pontederia cordata*, *Sagittaria* in some of its forms—there are native, foreign and double ones—and *Butomus umbellatus*. These are all hardy unless possibly *Nymphaea elegans* prove tender too far north. It is to try that point and hasten the chance of a hardy blue *Nymphaea* that I have mentioned it. *Nymphaea scutifolia* (probably a form of *stellata*) is hardy from Virginia southwards.

JAMES MACPHERSON.

Trenton, N. J.

National Chrysanthemum Society of England.

It is announced that this society, which was instituted in 1846, will hold a grand jubilee celebration in London in Novem-



DARDS



HANFT BROS.

P. OKKERSE.
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her next, in honor of the completion of fifty years of its existence. The celebration will take the form of an immense exhibition of chrysanthemums in which all types of the flower will be represented, a conference of chrysanthemum growers and raisers from all parts of the world, a jubilee banquet, the striking of jubilee medals to be awarded to such persons as have rendered conspicuous service in promoting the improvement of the chrysanthemum, and the preparation and compilation of a complete catalogue of chrysanthemums.

Society of American Florists.

The annual meeting of the executive committee of the Society of American Florists was held at Cleveland, Ohio, on April 28, 29 and 30. There were but three absentees, and a vast amount of very important work was done. In addition to the regular members of the executive committee there were present Mr. E. G. Hill, representing the American Carnation Society, and Mr. J. M. Gasser of the Cleveland Florist Club. Much enthusiasm was manifested by the local members and all indications point to a convention next August which will be second to none in interest and importance. The Army and Navy Hall, which is very conveniently located, has been secured for the sessions of the convention and the trade exhibit will be held in the Central Armory, which is but a short distance from the convention hall, in connection with a grand horticultural display to be given under the auspices of the local club, and for the encouragement of which the executive committee decided to offer several liberal prizes in the name of the national society. On recommendation of the Cleveland Florist Club, Mr. E. H. Cushman was appointed superintendent of the trade exhibit. Several changes were made in the rules governing this exhibition and the manner of appointing judges, which, it is believed, will remove the causes for dissatisfaction which have been experienced in the past.

Among the subjects for discussion at the sessions are the work of the carnation and chrysanthemum societies, the chemistry of fertilizers, commercial law as applied to our business, and overproduction as viewed from the standpoint of producer, wholesaler and retailer. One evening will be devoted to the president's reception, which was such a successful feature of the convention at Pittsburg. On another evening arrangements will be made for a lecture which it is expected will prove as interesting as did that of Wm. Hamilton Gibson last year, and the third evening will be devoted to the public, short addresses on the care of plants being made by competent gentlemen.

A subject that will take up much time at the coming convention is the new constitution and by-laws, into which the executive committee has individually and collectively put a great deal of work, and which as finally approved at the late meeting will be presented to the society for its consideration at the August convention. It provides for a reorganization of the national society, so far as its relations with other existing organizations are concerned, and includes also a provision for life membership. It was decided that in the meantime all members of the S. A. F. now in arrears for dues may upon the payment of the sum of \$2.00 in addition to the regular dues (\$3.00) for the current year, be reinstated as members.

The committee on classification of fire insurance risks reported encouraging

progress, and a new committee was appointed to take up the important matter of statistics of horticultural exports and imports. WM. J. STEWART, Sec.

New York.

In the cut flower market general conditions remain about as reported last week. There is a shortening up of violets, and outdoor lilac and bulbous flowers take the place of the indoor stock. Of the latter there is the usual deluge, but it will not last long. Roses are coming in freely, of excellent color, but averaging very small flowers. Carnations which look fresh and bright sell readily at prices that should be considered fair for the season. There is much stock coming in, however, that looks neither fresh nor bright, and this goes to loss.

W. H. Coulson, superintendent of Thos. W. Weathered's Sons' factory at Jersey City, was almost instantly killed on the night of April 29 by the explosion of a charged cylinder, with which he was experimenting. Mr. Coulson was of an inventive turn of mind, interested in machinery and chemistry, and spent his spare time in study and experimenting, his ingenuity making him an invaluable man to his employers, who also speak highly of his character. He leaves a wife and two children.

Wm. Elliott sold a fine lot of rhododendrons at auction on May 1. A noticeable fact was that although the plants looked equally attractive to the uninitiated, the stock from a well known English grower sold for about four times the price realized for the Dutch stock.

Mrs. C. W. Knight died suddenly at St. Luke's Hospital on Friday, April 24, and was buried on Monday, the 27th, from the same place. Mr. Knight is gardener in charge of the estate of Mr. E. Ladew at Glen Cove.

Mr. J. H. Taylor states that from several Bride houses where the plants are in their sixth year he is cutting more blooms and better ones than from any other houses on his place.

Prof. N. L. Britton of Columbia University delivers an illustrated lecture on the New York Botanical Garden at the meeting of the N. Y. Gardeners' Association at 64 Madison avenue on the evening of May 9.

E. B. Sutton, Jr., of Babylon, is sending an average of 5,000 violets daily, which is an unusual record for May.

Ford Bros. have removed from 131 West 30th street to the store recently vacated by Theo. Roehrs at No. 113.

Hammond & Fitzgerald have opened a wholesale cut flower store at 115 West 30th street.

Jos. E. Rolker has come in from a successful two months' western trip.

Aug. Rolker is unable to attend to business on account of sickness.

H. C. Steinhoff returned from Bermuda last week.

Hanft Bros. have moved from their former place on Broadway to 613 Madison avenue, corner 58th street. It is their intention to open a downtown branch either on Fifth avenue or Broadway in September next.

With the spring fever for gardening some of the fronts of vacant downtown stores prove temporary quarters for a rather peculiar horticultural trade in dormant roses, shrubs, bulbs and seeds. Typifying this class, Mr. Kelly, who as he says "represents the Irish end," of a Greenwich street firm who are "agents for the New York and Holland Nursery Association," offers the "Tuba Rugosin,



P. L. BOGART'S



CHAS. DORAN'S.
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a bulb sent out first in 1895 at \$96 per dozen," now at three for 25 cents. This bulb much resembles the ordinary tuberose, second size, which has been sold for some time at about \$1 per 100.

At the meeting of the New York Florists' Club on Monday evening, May 11, Mr. E. A. Scidewitz of Annapolis, Md., will read a paper entitled "The drift of the times" (horticulturally speaking).

Buffalo.

Fine weather is prevailing with us, very fine but very dry, only one good shower since the snow went. The heat has begun to tell on carnations and roses, yet I have not heard any complaint of scarcity. Outside tulips have been in their prime the past week, but soon will be over. Business can be honestly called quiet, those who differ with this must be in luck. We are expecting to travel to Wilkesbarre on the 20th of this month to meet the Philadelphia shooters, and will be guided round that anthracite village

by the two well known men who are capable of anything, but whose name is too sacred for mention here. As the writer is not able to get around to interview all the shooters of our team I trust that they will take notice that the 20th is the date and the train is the Lehigh Valley on the night of the 19th. A three round set-to with soft gloves is on the schedule between a heavy weight of Utica, N. Y. and our veteran heavy weight of Buffalo. Fouls allowed, and refreshments between each round. The Buffalo men who have the sense to go must remember they will see two large flower-growing establishments and one of them built right up to date.

The rear guard of the Dutch bulb growers fell on us to-day, but he was a good specimen in the shape of Mr. L. Van Waveren. Mr. Joseph Rolker of New York made a very short visit on Friday last.

A recent visit to the park greenhouses, convinced us that the public will no longer have cause to complain of a



W. BURNS.



HAUSER & SONS.



N. CHRISTATAS.

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scarcity of flowers in our fine parks. Under the care of assistant park superintendent James Braik a grand stock of all the useful bedding plants has been grown. This is the first year the park has had houses to grow good stuff and well they are filled.

The writer would like to contribute a word or two about our visit to Cleveland last week. He has attended but one executive meeting prior to this one, but he believes that for steady work this will compare favorably with any previous ones. There was much to talk about, and we trust much done that will bear good fruit to our national society. With short intermission necessary for our physical welfare it was one continual session, with only one break, that trolley ride on Wednesday, when we could not refuse the invitation of Mr. Gasser. The trolley and its occupants were a gorgeous sight and from the attention it received it was evident that the average citizen thought it was Gov. McKinley arrived to see the first home game of the local baseball club. The ride was most enjoyable and the stops were duly appreciated. The banquet was elegant and the worthy president of the Cleveland Club, Adam Graham, never acquitted himself better. The great enthusiasm shown by all the local men was very gratifying. It is to be hoped they will get up a good show in August, and it is bound to be an incentive for members of the S. A. F. to attend the convention. Cleveland is a beautiful broad streeted, clean city, always temperate in temperature and an ideal city for a convention.

W. S.

Boston.

The annual May exhibition of the Massachusetts Horticultural Society, which took place on Saturday, 2d inst., was a splendid success. Seldom, if ever have such superb calceolarias and pansies been seen here, and the collections of native flowers exceeded in number and variety all previous efforts at such an early date. The calceolarias came from Mrs. B. P. Cheney and E. L. Converse. The former staged twenty-six plants uniform in size and well-flowered, taking first and second prize for single specimens and first, third and fourth on groups. Mr. Converse's plants showed a novel range of color, one plant duplicating the soft pink and white of *Cypripedium spectabile*, the individual blooms being of enormous size and the luxuriant foliage covering the pot well, but some of the plants had unfortunately got bruised in transit.

One of the most beautiful plants ever shown in this hall was a specimen *Bougainvillea Sanderiana*, a veritable fountain of bloom, six feet across, which well deserved the silver medal awarded it. *Pelargoniums* were shown in good form by the same exhibitor. A perfect specimen in flower of *Boronia elatior*, six feet in height, attracted great attention. This was from Dr. C. G. Weld, who also showed a group of large Indian azaleas, auriculas and streptocarpuses in good colors and variety. Hardy narcissi were shown by Dr. Weld and by the Bussey Institution, and Harvard Botanic Garden staged a comprehensive collection of hardy herbaceous and bulbous flowers, all named. J. S. Fay's pansies were as usual superb. Other attractions were tulips and Testout roses from C. V. Whitten, carnations from Wm. Nicholson, nymphaeas, etc., from Oakes Ames and promiscuous cut flowers from Jas. Comley and Mrs. E. M. Gill. The vegetable

department also showed up well, tomatoes being especially good.

The Gardeners' & Florists' Club held the last regular meeting of the season on Tuesday evening. No program having been arranged, it was a sort of go-as-you-please occasion, the question box sufficing to keep up the interest for an hour and a half and furnish material for an abundance of good-natured discussion. Warren Ewell became, without previous knowledge or intent, the star speaker of the evening. His first duty was to make final report as the chairman of the dinner committee, after which he was duly tendered a vote of thanks. The first query from the question box was in reference to bulbs, and this being Mr. Ewell's special industry he was called upon to respond. His experience in and ideas regarding the tulip industry were given in his usual witty and entertaining manner. Upon request he gave a list of the varieties grown by him for the city trade, but in response to an enquiry as to the most profitable tulip to grow he replied, "The one your customer wants." Mr. Emil Mische, a graduate of the Missouri Botanical Garden at St. Louis, being present, being called upon said a few words in reference to the courses of study and methods of conducting that famous place and promised to talk more at length at one of our fall meetings after he has had an opportunity to compare the work of the Shaw Garden with that of the Bussey Institution. President Cotter and Secretary Dawson were by vote empowered to arrange for the annual strawberry festival in June.

The wholesale cut flower trade has been aroused to feeling of resentment by a statement published in a local contemporary to the effect that the wholesale dealers have been making up retail work for out-of-town undertakers. The wholesalers declare this statement to be false and maliciously calculated to injure their standing with the country trade.

"Ten of 'em for a quarter" is the cry of the street fakir as he holds out a tempting bunch of Brides, Gontier and Perles. This indicates the present condition of the rose market. Carnations fare somewhat better and when of good quality bring reasonable prices. The beautiful dark Cape violets are now coming in.

Out-door spring beauty has received a severe set-back this year such as has rarely if ever been experienced here. Forsythias, wistarias and other early blooming shrubs have had all the blossom buds killed outright and *Spiraea Thunbergii* is killed to the ground. Even the lilacs are in some cases affected.

The display of tulips and pansies on the Public Garden, always a brilliant sight, is better this year than ever before. The arrangement and grouping of colors have never before been so well done.

Daniel Hay, gardener at Faulkner Farms, Brookline, was thrown from his bicycle on May 4, fracturing his skull.

At the May meeting of the Mass. Horticultural Society resolutions on the death of Mr. C. M. Atkinson were presented and unanimously adopted.

Visiting Boston: Geo. C. Watson, Philadelphia; Robt. Hogg, Providence, R. I.; J. Keur, Hillegom, Holland; J. H. Veitch, London, England; and S. Skidelski, Philadelphia.

Pittsburg.

The cut flower trade continues very dull, lilacs, crab-apple and dogwood having the call this week, very much to the detriment of prices on grown stuff. Carnations 25 to 35 cents per dozen as

against 35 and 50 cents last week. Roses, not selected, 50 cents as against \$1, other stock in proportion. The trade in potted plants is increasing. The demand for bougainvillea and hydrangeas in bloom is very good, prices ranging from \$2.50 to \$3.50 for the former and from \$2 to \$3 for good and \$5 for fine specimens of the latter, the regular bedding stock, geraniums, etc., bringing about the same prices as last year.

A visit to Mr. John Bader's greenhouse on Mount Troy, found everything in good shape for the coming plant trade. His stock looks well and the varieties good. Mr. Bader has a large stock of young palms and will grow ferns in variety this season, many more than formerly, and is talking of adding more houses to his extensive plant this summer. Mr. B. has been sick for a short time, but is gradually getting better.

Mr. James Semple, of Bellevue, showed very fine lilies and cacti this week with the full variety of bedding plants. He is very well satisfied with the opening and prospects of this branch of the florists' business this year.

Superintendent Hamilton, of the Allegheny Parks, has all his force putting them in readiness for the annual flower ornamentation, which he expects to surpass former years in its arrangement. In the Phipps conservatories under his charge the principal exhibit at present is the superb collection of fancy-leaved caladiums, comprising 150 distinct varieties, the collection in South Park, Chicago, being the only one in this country approaching it for completeness. The plants are only started enough to give one the true idea of their wonderful beauty; a little later on, when they will have the house they are in to themselves, and displayed without crowding will prove the centre of attraction among the many other wonderful specimens of the floral kingdom to be seen here. Riverview Park, on the outskirts of Allegheny, on one of the highest points in the city, under the management of Director McAfee, is being improved only in the way of roads and grading this year, but will when its natural beauties are taken advantage of, rank among the most desirable parks to be found anywhere. The attractions the present year will be a Zoo and nature's woods, the florist will be in evidence in the near future.

Wm. Loew is again with John Bader and has charge of his stand in the Pittsburg market once more.

Mr. Henry Kroder, with Siebrecht & Wadley, is with us this week. REGIA.

Chicago.

To say the glut continues is a world too mild. Every wholesaler is loaded to the gunwales, and local trade seems to have gone out and died. It is the general opinion that such a period of glut and dullness never before appeared so early in the season. Stock comes in by the wagon load, and there is no possibility of selling it at any price. In fact, there isn't any price.

In roses, some of Reinberg's extra select Testouts bring \$5 and \$6; but nothing else brings over \$3, which is the price for Meteors of the highest excellence. We hear of selected Bridesmaids going for \$4, but \$2 and \$3 will buy the very best; in fact \$2 is a fair price for good roses. How far below this they go no one but a mind-reader can discover, but \$15 a thousand is quoted, and there are painful whispers of half this price. These are the days when the fakirs come in with an air of

haughty confidence, prepared to spend upwards of 75 cents for flowers enough to load a government pack mule, and they go out deeply pained when they run across a wholesaler who will rather send the surplus to the hospitals than give it to men who lower the legitimate trade. Shipping trade is all that keeps business alive now; it is possible that many of the out of town men have pulled out their roses, in view of the heat, hence a scarcity in some localities.

The unusually warm weather, more like July than May, has rushed out spring flowers with astonishing rapidity. *Spiraea prunifolia*, usually in for Decoration Day, is in full bloom. Paonies, old red and white, have arrived simultaneously; as a rule their time of blooming is two weeks apart. They are not expected from the immediate neighborhood till next week, the present flowers being from points a little south. They sell for \$4 a hundred. All the outdoor bulb stuff is rushing in. Valley is plentiful from outside, sells from 50 to 75 cents and \$1, quality varying a great deal. The finest tulips seen are the pure yellow and yellow flamed red from the old Kennicott place. They are a variety peculiar to this place, unnamed, single, and very pure in tint. Some of them are cut with stems 18 to 26 inches long. Some of the fine *Gesneriana* tulips, that sold so well former years, fall flat now. Irises are plentiful and fine, but all this stock is very cheap.

Sweet peas, the best, are held at 50 cents; carnations 75 cents to \$1, fancies, such as Keller and Rose Queen, \$1.25 to \$1.50. Rose Queen held up to \$2 until the latter part of the week. Harrisii move slowly at \$4.

Very little entertaining is done now, and at the few affairs where any decorating has been done there was a tendency to use apple blossoms and similar spring posies, which, though æsthetic, don't help the florist to pay his coal bills.

W. E. Lynch has just moved into much larger and more convenient quarters on the same floor of 59 Wabash avenue as before. His new quarters are on the Randolph street side, in line with Piegras and Winter & Glover. The space is about three times as large as formerly. While moving Mr. Lynch met with a very serious accident. A rack on which he was standing gave way, precipitating him forward. In the fall one hand crashed through a heavy pane of glass, cutting a jagged gash in the forearm, midway between elbow and wrist. It was a dangerous wound, which in a man of less vigorous physique might have resulted fatally, as an artery was severed, and it was half an hour before a physician arrived. However, with the aid of a tourniquet improvised by Mr. Freese, the bleeding was lessened, and though weakened by loss of blood, Mr. Lynch is getting along well. He will be unable to use the arm for some time yet.

Harry Balsley, Detroit, was a recent visitor.

St. Louis.

The market last week didn't show much improvement, although the glut was not so great and prices showed little improvement. Trade in retail circles was a little better, there being lots of funeral work going on, making white stock a little scarce. The fakir had to run from one commission house to another in order to get his stock; two weeks ago he could get it all at the one place. Roses are cheap but not so plentiful as last week, and are very much off in quality. Prices range from \$1 to \$5. Carnations are selling at

from 50 cents to \$1.50 for the best, Day-break is still good but somewhat paler in color. Outdoor grown valley is coming in in large quantities, but sells very low, at \$1. Sweet peas are still plentiful and cheap, 25 cents to 50 per 100 is all they bring. The old dagger fern has made its appearance, and finds ready sale. Good smilax is always in good demand.

Oac wholesale house in this town is doing a very large retail business, even going as far as to take decorations of plants. I think that is going too far. They expect the retail florists to patronize them and take the bread out of his mouth by selling and making up work at retail at wholesale prices. How can a retailer compete with such work as that?

The banquet of the directors of Shaw Garden at the Mercantile Club was elaborately decorated with plants and cut flowers: the work was by Ellison & Tesson.

Mrs. De Donato has opened a floral establishment at 525 Olive street, recently occupied by Wm. Lingenbrink (Ellerd's) who moved across the street on April 31.

J. M. Jordan has returned from Omaha, Neb., where he spend a week to attend the wedding of his son Harry.

North Floral Co. are cutting a fine lot of outdoor Jacques; Mr. North reports that he will cut them by the thousand next week.

Riessen Floral Co. covered itself with glory at the Gerak-Kant wedding last week. The floral decorations at the church and the banquet table were magnificent. The bouquets of the bride and bridesmaids were of white orchids.

Tom Carroll expects to rebuild all of his old houses this summer. Tom reports that he will grow all his carnations in solid ground hereafter. Mr. C. grows carnations exclusively.

The next meeting of the St. Louis Florists' Club will be held at our hall Thursday afternoon, May 14, at 3 p. m. Sweet peas, carnations and roses will be on exhibition. A large attendance is expected.

We bowled again Monday night; it was hot but the boys came just the same. Ten members rolled. Mr. E. W. Gay of Belleville was a visitor and rolled with the boys. This ended the April series of 12 games. Beneke made 2,155 in 12 games and wins the medal. J. W. Kunz was second with 1,957, and Al Bauer third with 1,867. The highest single score of the 12 games was made by Beneke, 218, second, Frank Fillmore, 206; Weber and Kunz tie for third place 205. Next Monday night a new series will begin of 12 games and we hope to see some of the old faces back with us.

J. J. B.

Indianapolis.

Trade since Easter has been dull, only at intervals a funeral order or a wedding. The Public Market flower stand people report sales weaker and less than for some years at this time. The dry weather, which is getting serious, may have a great deal to do with this standstill right in the planting season. Cut flower business is also stagnant, very few receptions and weddings have been on the list, only few prominent funerals having helped to cut the surplus flower stock down. Cut roses are getting weak, carnations smaller on account of the extreme warm and dry spell. Outdoor flowers are passing away quickly. Lily of the valley, generally in its prime May 15 to 20, is past, snowballs and peonies are blooming, philadelphus just coming into bloom. Roses are also heading out fast and

Decoration Day three weeks away. Very likely fewer flowers will be gathered for that occasion, than for some years past. Bulbous outdoor flowers came quick, were finer than usual, but warm weather cut them down quickly.

Sonnenschmidt & Yunge are adding a rose house 100x20 to their extensive place east of the city.

Jno. G. Rathsam, 706 College avenue, will shortly remove to Lexington avenue, taking the old Woodlawn Greenhouses, formerly belonging to L. Schwartling.

G. Lange & Son, having greenhouses on South Meridian street, have started a stand for the sale of flowers in Hunt's drug store, corner Ohio and Pennsylvania streets.

Wm. Lentz, College and Christian avenues, has closed out his stand; the property owner building a block on the place.

B. F. Fohl, formerly having charge of the New York dry goods store's flower department has rented a corner in Weber's drug store, Ohio and Illinois streets.

The Huntington Seed Co. a few days ago executed mortgages to the amount of \$25,000 to preferred creditors, the Capital National Bank being the principal creditor. The owners report that they are nicely treated and under favorable circumstances will come out in good shape, slow collections and backward season with overstock in some lines causing all the trouble.

Bertermann Bros. on June 15 will remove from 37-43 Massachusetts avenue to 85 and 87 E. Washington street (Pembroke Arcade Building). These stores being in the entrance of the Arcade building they will have plate glass window space on three sides, an elegant basement extending 14 feet in under the sidewalk, with all conveniences of a modern store building. Their conservatories and store on Massachusetts avenue will be removed to their property 1374 East Washington street and added to the present greenhouse plant, which is now in the city limits and in a growing part of the city. The place they vacate on Massachusetts avenue was originally started for a florist's stand in 1879 by Lewis Bros. and the improvements and trade bought by Bertermann Bros. in 1883. The property owners were not willing to give an extensive lease, the surroundings also not being suitable for any more expense in improving in the proper way, the move is fully justified and will be beneficial to all concerned.

A new firm is talked of for the cultivation of palms and foliage plants, particulars later.

The Street Car Co.'s Park, Fairview, is in splendid condition, the florist, Mr. Jones, expects to plant out a good many beds this spring, as all water facilities are now ample and the company willing to expend some money on further improvements.

The Public Park Commissioners will ask for an appropriation of \$250,000 for the coming year to make the proposed park extensions and improvements, nothing less will do them if the city wants parks with a big P.

W. B.

San Francisco.

Business is very quiet at present and from present indications is likely to remain so for some time to come. The late warm rains have helped everything outside wonderfully, so that roses are now in their glory. Inside roses, however, are selling fairly well when the quality is good. Some extra fine Testouts are find-

ing their way into the market, also Perles and Bridesmaid. Kaiserin is a very good white out here and seems to be in the public favor all the time. Carnations are rather a hard article to procure just now, especially Portias. Liliun Harrisii is a decided drug this year. There has been an enormous quantity of them grown, and the market is just now flooded with stock. Since the rains last week the violets have commenced on a second crop, and there is quite a lot of Marie Louise to be had. They bring about 75 cents per dozen. Some of the growers have commenced planting out their chrysanthemums now and from what I can learn more 'mums will be grown inside this season than last, and quite a lot less will be grown outside. Pansies are going slowly. We notice some very fine spiraea in some of the stores. Sweet peas are now coming in in earnest. They are of extra fine quality and find a ready sale. We have seen some pots of Cupid in bloom and expect to see some in the florists' windows soon.

Mr. P. O'Hearn, of San Mateo, has rented his greenhouses to his brother John and has accepted a position elsewhere.

Mr. George Draycott resigned his position with D. O. Mills, of Milbrae, last week, and as yet is undecided as to his future movements. It must be said to Mr. Draycott's credit that this famous old place never looked so well as when under his control. He certainly had the finest specimen ferns and palms to be seen in any private place. The Farleyense ferns were indeed wonderful, also the cinerarias, primulas, and cyclamen were as good as could be got. The fern and fruit houses, graperies and palm houses, numbering about fifteen in all, were all a model of neatness and everything showed the care which had been bestowed upon them by genial George.

Mr. Andrew McDonald, formerly with J. A. Donohoe, has entered the employ of M. Lynch.

The annual spring rose show of the California State Floral Society is now on in the Maple Hall of the Palace Hotel and from all accounts will be a success. I shall give a detailed account of it in my next.

W. Atlee Burpee of Philadelphia is expected here in a few days.

The second show of the San Mateo County Floral Society took place in Redwood City, April 29 to May 2. The show was a very great success. On the 29th the queen of the carnival was crowned, which was immediately followed by a grand coronation ball. On the 30th the rose show opened with impressive ceremonies. The hall was very artistically decorated for the occasion. On entering we noticed a very good exhibit of sweet peas by Mrs. Schroeder; considering the earliness of the season this was excellent. Among the varieties shown was Mrs. Gladstone, Stanley, Emily Henderson and Firefly. This took first for the largest and best collection of sweet peas. Mrs. George Ross of Belmont had an excellent exhibit of cut flowers, her pelargoniums being especially good. She also showed some Crimson Rambler rose, but seems to be disappointed in it. We noticed some Paul Neyron nearly as large as a peony. Her roses were especially beautiful. The calla lilies at this show were grand; we noticed many with stems 6 feet long. One thing very noticeable about this show was the absence of professional growers; every year seems that the number of growers exhibiting is rapidly di-

minishing. The only way we can account for this is because amateurs nearly always get the preference over growers at these carnivals. It seems to me that people are looking for quantity instead of quality, and the last few years this has become particularly noticeable. These carnivals are very excellent things, no doubt, but when they have a tendency to run towards a large amount of trashy flowers instead of a limited number of good ones, their evil effects to the florists are apparent. This show closed on the 2nd and was a great success, both in a financial and social way.

The Sunset Seed & Plant Company are making a private exhibition of plants, flowers, seeds, etc., at their store on Sansome St. METEOR.

OBITUARY.

ANDREW S. FULLER.

Andrew S. Fuller, widely known as a writer on agriculture, horticulture and arboriculture, died suddenly at his home, Ridgewood, N. J., May 4. He was born in Utica on August 3, 1828. When a boy he removed with his parents to Barre, in Orleans county, and at the age of 18 went to Milwaukee and began the life of a florist. While in Milwaukee he married Miss Jennie Crippen, and in 1855 they removed to Flushing, L. I., where he became foreman for William Prince, the nurseryman. He stayed there a year, and then with his wife went to Brooklyn, where for nine years he had a garden and raised small fruits. During this time he began writing on horticultural matters. Early in 1860 he went to Ridgewood.

Mr. Fuller was connected with the *Tribune* until the *Weekly Sun* was established, when he became its agricultural editor, remaining in the place for twenty-six years, as long as the publication was continued. He also edited at one time the *Rural New Yorker*, and wrote for the *Agriculturist*, *American Gardening*, and the *Florists' Exchange*, and published various books, including "The Strawberry Cultivist," "The Small Fruit Cultivist," "The Grape Cultivist," "The Propagation of Plants," and "Practical Forestry." His last book, on "Nut Culture," is now in the hands of the publishers, and was to have been issued in about a month.

Mr. Fuller went to different parts of the country at times and bought trees for some persons who knew him and were interested in arboriculture. He made a special study of entomology, and collected a large library, and a cabinet of specimens. He was an authority also on prehistoric American pottery, and had collected specimens of it. He was an enthusiast in anything that related to natural science.

He had no children. Besides his wife there survives him his sister, Miss Elmena Fuller, and his brother, Henry C. Fuller, both of New London, Conn.

MONSIEUR LEON SAY, president of the National Horticultural Society of France and member of the French Academy, died April 21.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By a young man, age 23; 10 years experience in general greenhouse work. Would like steady place. Please state wages. Address P. JAMES, Ellis, Steuben Co., Ind.

SITUATION WANTED—By young man, age 25, in private or commercial place; 9 years' experience. Excellent references. Address W. M. SHERWOOD, Sherwood Hall Nurseries, Menlo Park, Cal.

SITUATION WANTED—By a first-class grower of cut flowers and bedding plants; German, single; 12 years' experience in America. Good references. Address FLOREST, 102 Wells St., Chicago.

SITUATION WANTED—A florist and gardener capable of taking full charge of private place would like situation in country. Years of experience. Good references. R. R. care American Florist.

SITUATION WANTED—By competent florist and gardener; German, single man, with life long experience. Please state full particulars in answer. Address COMPETENT, 427 Auburn Ave., Atlanta, Ga.

SITUATION WANTED—In San Francisco or vicinity by first-class German florist, 30 years old, single; private or commercial; long experience; Chicago references. Address CARL VORBECK, 316 4th St., San Francisco, Cal.

SITUATION WANTED—By all-round florist; good propagator and design worker, sober and competent; eleven years in growing roses, carnations, chrysanthemums and general stock; references. Address GROWER, care American Florist.

SITUATION WANTED—By first-class rose and carnation grower, etc., as foreman; have held such positions for several years, and can furnish all references; married. Address COMMERCIAL, 114 6th Ave., New York City.

SITUATION WANTED—As working foreman in commercial place where first class stuff is wanted. None but those paying good wages need apply. Western states preferred. CHAS. MCANIFF, 2540 Cottage Grove Ave., Des Moines, Iowa.

WANTED—Good rose grower. Address at once, REINBERG BROS., 51 Wabash Ave., Chicago.

WANTED—One good young man for work around greenhouses. Address A. PARUD, Crowa Hill Cemetery, Indianapolis, Ind.

WANTED—First-class man to take charge of section of houses. Inquire at ROGERS PARK FLORAL CO., 41 Wabash Ave., Chicago.

WANTED—Good grower and propagator as work-lag foreman; married man preferred. Address, stating wages desired, etc. OHIO, care Am. Florist.

WANTED—Catalogues of nurseries and seedsmen, and yearly reports of superintendents of parks and cemeteries. Address SUPERINTENDENT, 301 Park St., Hartford, Conn.

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FOR RENT—Five greenhouses (5,000 feet glass) and five acres ground in a western city of 30,000. Address B & C, care American Florist.

FOR SALE—At half price, three greenhouses, stock, boiler, pipes and everything belonging to it. If applied for soon. W. S. P., care American Florist.

FOR SALE OR RENT—Two connected greenhouses, each 18x50 feet, potting shed and sleeping room. Hot water. No competition. Southern Wisconsin. RETAIL FLORIST, care American Florist.

FOR SALE—A completed florist and gardening business, cottage, greenhouses, hotbeds, sash, plants, valuable garden—everything that is necessary, no opposition in business; price \$4,000—\$2,000 cash, rest can remain on mortgage. ADOLPH BALZER, Highland Falls-on-Hudson, N. Y.

FOR SALE—(A chance of a lifetime). A bargain! If sold within 30 days 5,000 ft. of glass, 3 houses 80 ft., boiler house 43, glass 16x20, 16 horse boiler for steam; free gas for boilers to heat greenhouses with; 5,000 population, another town within 2½ miles of over 300 population, gives florist 8,000 plants; no other greenhouses. A complete stock of carnations in field, will furnish over 50 Sage palms. About 1 acre of land, all clear. Ten large factories employing several hundred hands, a flower town. Will sell for \$2,100, \$500 down, will take \$100 in flowers, and give 50% on balance. Give warrant deed for land, houses, tools and all stock. Houses well built. Write for a full list of stock and descriptions. Plenty of water. Good railroad. Address FLORIST, Lock Box 561, Dunkirk, Ind.

FOR RENT—For term of years: Nine complete and convenient greenhouses, four of them new last year; soil and houses especially adapted to roses and carnations; steam heat essentially new last year; plenty of water; four express trains pass the doors daily, stopping for stuff, pre-billed by telephone; fuel brought to boiler house by rail; a good brick house included in rental also sufficient land. We are one mile from county seat, 10,000 inhabitants. This is a rare opportunity for responsible party, who can furnish approved security. Address DR. ALFRED E. BAKER, 325 Mantua Ave., Phila., N. B.—We ship to Phila., Bronx St., by 5c. package system; N. Y., Balt. and Wash. are about equally accessible by rail, being about three hours.

Assignee's Sale.

As Assignee, I offer for sale a large and valuable stock of choice decorative and greenhouse plants. The business is thoroughly established, and near the thriving city of Tampa, Florida. Will sell in lots to suit purchasers, at private sale, at prices very much below the usual trade rates, or will accept an offer for the whole stock at half its value.

List will be sent on application.

Address WM. HUNTER, Room 31 1st Nat'l Bank Bld'g, Tampa, Fla.

LILY BULBS FROM JAPAN.

Imported Direct from the Japanese Bulb Farms and offered at Import Prices.

These are from same reliable growers as heretofore, and can be thoroughly depended on. They are repacked on arrival and every bulb guaranteed sound. I offer these with every confidence and know they will give good satisfaction. Note especially my very low prices this year for repacked and guaranteed bulbs.

	Per 100
Lilium auratum, 7 to 9 inches	\$4 00
" " 9 to 11 "	6 00
" speciosum rubrum, 7 to 9 "	6 00
" " roseum, 7 to 9 "	6 25

We are sold out of L. speciosum album.

CANNAS, GLADIOLI, DAHLIAS, PEONIES, BEGONIAS, IRISES, MADEIRA VINES, AND OTHER SPRING BULBS. Fine assortment at low rates.

#2—Send for Price List.

G. C. WATSON,

43 N. 10th St. PHILADELPHIA, PA.

FORGING ROSES.

A NO. 1 STOCK. Per 100 Per 1000

AM. BEAUTY	\$5 00	\$40 00
KAISERIN VICTORIA	4 00	35 00
THE BRIDE	3 00	25 00
BRIDESMAID	3 00	25 00
MERMET	2 50	20 00
LA FRANCE	3 00	25 00
W. LA FRANCE	3 00	25 00
M. NIEL	4 00	35 00

SMILAX. DRACAENA INDIVISA, extra strong, ready for a 4th shift, \$5.00 per 100.

DRACAENA INDIVISA, seedlings out of flats, 50 cts. per 100; \$4.00 per 1000.

SWAINSONA, extra strong, \$3.00 per 100.

UNNAMED SEEDLING COLEUS, 2½-inch pots, very strong; all large leaved varieties, \$3.00 per 100.

J. B. HEISS,

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ROSES.

Ulrich Brunner

FROM 3-INCH POTS.

No stronger and finer plants obtainable.

\$5.00 per 100; \$50.00 per 1000.

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ROSES.

Fine stock from 2½-inch pots, \$4.00 per 100.

ETOILE DE LYON, MAMAN COCHET, MRS. DEGRAU, BRIDE, MARIE GUILLOT, BRIDESMAID, MARY WASHINGTON, MME. HOSTE, MERMET, MME. F. KRUGER.

TERMS CASH

NATIONAL PLANT CO., Dayton, O.

CHOICE ROSE PLANTS.

3-INCH POTS.

PERLE, BRIDE, BRIDESMAID, METEOR, \$4 per 100; \$35 per 1000.

These plants will please buyers.

BRANT & NOE, Forest Glen, Ill.

ROSES! ROSES!

Brides, Bridesmaids, La France, 3-inch, prime stock, \$4.00 per 100 cash.

Will exchange for Kaiserlins, or other good bedding roses; for 5 or 6-inch Arcen luteusens or Lantans; for Canna Chas Henderson, Queen Charlotte, or Columbin; for newer Carnations. Write us what you have.

CURREY & CO., Nashville, Tenn.

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Having decided to hold over my old Meteor and Bridesmaid rose plants another year, I have consequently a surplus lot of young

BRIDESMAIDS and METEORS

which were grown expressly for use in the *Sunny-woods Greenhouses*.

These are offered at \$4 per hundred, from 2 1-2 inch pots. Five per cent. discount to those who will come and see them before buying; for they are worth seeing. From 3 1-2 inch pots at \$6 per hundred.

FRANK L. MOORE,
Original of the BRIDESMAID,
Chatham, New Jersey.

NOW is a good time to secure a strong healthy stock of the

CELEBRATED NEW ROSE

MRS. PIERPONT MORGAN

which has unmistakably grown in popularity as the season advanced. Prices for strong plants ready for immediate delivery are as follows:

From 2 Inch pots.	per 100.	\$125.00
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" " "	per 100	15.00
" " "	per 50	8.00
" " "	per 12	2.25
From 3-inch pots.	per 100	18.00
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Money Order Office, **EDWIN LONSDALE,**
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FOR SALE. FINE, HEALTHY ROSE STOCK.

Sure to give satisfaction; taken from stock that took First Prizes at Chicago Flower Show, 1895. Terms cash. Samples will be sent on application at the following prices:

500 LA FRANCE, 3-inch.	per 100	\$5.50
570 WOOTTONS, 3-inch.	per 100	5.50
225 KAISERIN, 3-inch.	per 100	5.50
618 PERLES, 3-inch.	per 100	5.50
275 PERLES, 4-inch.	per 100	7.00
690 SIEBRECHT, 2½ inch.	per 100	10.00
700 BRIDES, 2½-inch.	per 100	3.50
190 KAISERIN, 2½-inch.	per 100	3.50
575 PERLES, 2½ inch.	per 100	3.50

Have about 800 PALMS at a bargain, 4 to 10 inch.
POEHLMANN BROS.,
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TUBEROUS Begonia Bulbs.

All colors separate.

\$2.00 per hundred. \$18.00 per thousand.

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Offer the Following Stock for Spring Planting:

Roses in 2 1-2 inch pots.

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AM. BEAUTIES.....	\$5.00	\$40.00
METEORS.....	3.00	25.00
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GOLDEN GATE.....	5.00	
BRIDES.....	3.00	25.00
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BRIDESMAID.....	3.00	25.00
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BELLE SIEBRECHT.....	4.00	35.00

Orders for less than 50 of any one variety not accepted. **READY FOR SHIPMENT.**

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Strong and healthy young plants out black soil.		
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Free of rust. Ready for immediate shipment. Orders for less than 100 of any one variety not accepted.

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**CLOTHILDE SOUPERT,
THE NEW PINK SOUPERT,
PERLES,
LA FRANCE,
BRIDES,
SUNSET,
BRIDESMAID,**

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Write for prices on large lots.

BEDDING ROSES in 20 varieties, our selection, per 100, \$3.00.

CARNATIONS—ROSE QUEEN and ALASKA, from soil, per 100, \$4.00.

WILLIAM SCOTT, per 100, \$2.00; per 1000, \$15.00.

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BEAUTIES, MERMETS, CUSINS, TESTOUTS, NIPETOS, PERLES, BRIDES, BRIDESMAIDS, METEOR, HOSE, LA FRANCE, WOOTTON, WATTEVILLES, AUG. VICTORIA. Rooted Cuttings. Cash with order. Owing to number booked, they will be executed in rotation to assure prompt delivery. Order early.

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2-inch pots.	per 100	\$12.00
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ROSES.

BRIDES, BRIDESMAIDS, MERMETS and LA FRANCE, \$3.50 per 100; \$30.00 per 1000. PERLES, \$4 per 100; \$35 per 1000. 3 in. \$6 a 100. AMERICAN BEAUTIES, \$5.00 per 100; \$40.00 per 1000. Strong, healthy stock. 25 at 100 and 250 at 1000 rates. Cash with order.

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C. Testout.....	4.00	35.00	
Kaiserin Victoria.....	4.00	35.00	
La France.....	4.00	35.00	
Belle Siebrecht.....	4.00	35.00	
Bridesmaids.....	3.00	25.00	
Brides.....	3.00	25.00	
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Meteors.....	3.00	25.00	
Meteors, 4-inch pots.....	5.00	40.00	

Orders for less than 100 not accepted. Ready for shipment now.

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ROSES. NOW READY.

First-Class Stock, 2½-inch pots.

	Per 100	Per 1000
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88 Wabash Ave., CHICAGO.

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For 1896

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PRICE \$2.00.

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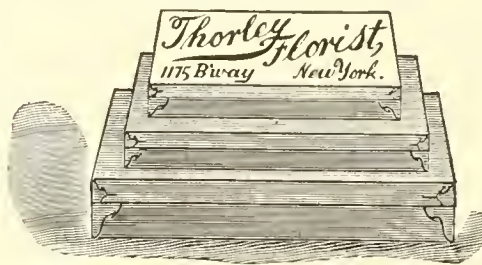
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and most convenient ever put upon
the market. They are made from
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these goods, and made so as to resist
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METS,
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CARNATIONS,
ALWAYS ON HAND.

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NO. 2 BEACON STREET,

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Mention American Florist

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Cut Strings, 8 to 10 feet long,

50 CENTS.

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119 and 121 W. 23rd St., and
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**IS NOW
OPEN FOR BUSINESS.**

The Largest Dealers in
CUT FLOWERS
IN THE WORLD.

Handling flowers of all kinds in quantity
we are in a position to fill shipping orders
promptly. We shall give careful attention
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The Boston Flower Market

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ship Trade orders for Cut Flowers at
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Address **WM. J. KENNEDY, Mgr.,**
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68 Lake Street, CHICAGO.
WHOLESALE CUT FLOWERS.

SEEDS, BULBS AND ALL
FLORISTS' SUPPLIES

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Wholesale Cut Flowers
and FLORISTS' SUPPLIES,
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Successors to T. J. CORBREY & CO.
Wholesale Commission Florists
59 Wabash Ave., CHICAGO.

If you want First-Class Flowers, properly packed and delivered on time, send us your orders and you will get what you want.

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HEADQUARTERS FOR AMERICAN BEAUTIES.

Reinberg Bros.
WHOLESALE CUT FLOWERS,
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Telephone Main 4937.
Our Roses best them all, in quality.
Headquarters for fine American Beauties.

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Wholesale Growers of
CUT FLOWERS,
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We are prepared to fill your orders with first-class flowers. Give us a trial order.

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COMMISSION FLORISTS,
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Consignments solicited. Prompt attention to all orders.

FLOWERS at RETAIL.
We are prepared to fill orders—received by mail or telegram—for Cut Flowers, etc., to be delivered in Cincinnati and suburbs or nearby towns.
Customary discount to the trade.
HUNTSMAN & CO.,
615 Race Street, CINCINNATI, O.

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Roses, Beauty.....	5.00@20.00
" Niphetos, Perle.....	1.00@2.00
" Cusin, Watteville, Meteor.....	1.00@3.00
" Bride, Bridesmaid.....	2.00@5.00
" Testouts, Morgan.....	1.00@4.00
" Jacq.....	1.00@5.00
Carnations, ordinary.....	50¢ 1.00
" fancy.....	.75@1.00
Sweet peas.....	.75@1.00
Violets.....	.25@.50
Valley.....	1.00@3.00
Harrisell.....	2.00@4.00
Mignonette.....	1.00@3.00
Adiantum.....	.75@1.00
Asparagus.....	50¢ 1.00
Smilax.....	12.00@20.00

BOSTON May 5.	
Roses, Gontier, Niphetos.....	1.00@2.00
" Perle, Mermet.....	2.00@3.00
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" Beauty.....	5.00@20.00
" Brunner.....	6.00@17.00
Carnations.....	1.00@2.00
" fancy.....	1.50@2.50
Violets.....	3¢@.50
Valley.....	2.00@3.00
Longiflorum, callas.....	4.00@6.00
Mignonette.....	2.00@3.00
Adiantum.....	1.00@2.00
Smilax.....	15.00@30.00
Asparagus.....	50¢ 1.00

PHILADELPHIA May 5	
Roses, Beauties long.....	2.00
" " medium.....	8.00@15.00
" " short.....	4.00@6.00
" Brunner.....	12.00@16.00
" Bride, Bridesmaid, La France etc.....	4.00@6.00
" Kaiserin.....	3.00@4.00
" small teas.....	1.00@3.00
Carnations, fancy.....	1.50@2.00
" first quality.....	1.00@1.50
" seconds.....	.50@1.00
Sweet peas.....	1.00@1.50
Harrisell.....	4.00@8.00
Smilax.....	15.00@20.00
Asparagus.....	35.00@50.00
Adiantum.....	1.00

CHICAGO May 8.	
Roses, Beauties.....	8.00@20.00
" " seconds.....	4.00@6.00
" Brides, Bridesmaid.....	2.00@3.00
" Meteors.....	2.00@3.00
" Perle, Gontier.....	1.00
" Testout.....	5.00@6.00
Carnations.....	1.00@1.50
" fancy.....	.75@1.00
Antirrhinum.....	4.00
Harrisell.....	4.00
Longiflorum.....	5.00
Valley, outdoor.....	.50@1.00
Violets.....	.25@.50
Tulips daffodils.....	1.00@2.00
Narcissus, single.....	1.00@1.50
Hyacinths, Dutch.....	1.00@2.00
Mignonette.....	1.00@2.00
Sweet peas.....	.25@.50
Irises.....	2.00@3.00
Paeonies.....	2.00@3.00
Gladolus.....	5.00@8.00
Lilacs.....	per bunch .10@.50
Smilax.....	15.00@18.00
Adiantum.....	1.00

ST. LOUIS May 7.	
Roses, Beauties, long.....	10.00@15.00
" " short.....	2.00@5.00
" select stock.....	2.00@4.00
" general stock.....	1.00
Carnations, fancy.....	1.00
" ordinary.....	.50
Valley.....	1.00@3.00
Harrisell.....	2.00@4.00
Callas.....	3.00@6.00
Romans.....	2.00
Tulips.....	2.00
Sweet peas.....	.25
Smilax.....	15.00@18.00
Ferns, dagger.....	1.50

BUFFALO, May 7.	
Roses, Beauties.....	15.00@30.00
" Meteors.....	4.00@5.00
" Bridesmaid, Xermets, Bride.....	4.00@5.00
" Cusin, Perle.....	3.00@4.00
Carnations, common, long.....	1.00@1.50
" short.....	.75
Callas.....	6.00@8.00
Harrisell.....	8.00@10.00
Tulips, outdoor.....	2.00
Sweet peas.....	.75
Valley.....	3.50
Smilax.....	15.00@20.00
Adiantum.....	1.25
Asparagus.....	50.00

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Successor to PECK & SUTHERLAND,
Successors to WM. J. STEWART,
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FLORIST,
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Price list on application.

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CUT FLOWERS,
WHOLESALE, COMMISSION,
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53 West 30th St., NEW YORK CITY.

MILLANG & WINES,
WHOLESALE FLORISTS,
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CORNER 30TH ST., NEW YORK.
Consignments Solicited.

The Seed Trade.

AMERICAN SEED TRADE ASSOCIATION.

S. E. BRIGGS, Pres.; T. W. WOOD, 1st Vice-Pres.; ALEX. RODGERS, 2nd Vice-Pres.; A. L. DON, 114 Chambers St., New York, Sec'y and Treas. The fourteenth annual meeting will be held at Niagara Falls, N. Y., June 9 to 11, 1896.

VISITED NEW YORK: Guy Posson of Portland, Oregon; J. E. Northrup.

F. E. McALLISTER & Co. have moved from 22 Dey street to 69 Cortlandt street.

MR. W. ATLEE BURPEE left for California via Sunset Route, Saturday, May 2.

NEW YORK.—C. H. Joosten has moved from 36 Dey street to new headquarters at 193 Greenwich street.

MR. HENRY A. SALZER has been chosen a delegate to the general Methodist Conference at Cleveland, Ohio.

SEED GROWERS in the vicinity of Garden City, Kans., are reported as claiming damages from Messrs. Ferry & Co. for cancelling contracts which had not yet expired.

NEW YORK.—The business of Chas. Schwake at 404 East 34th street was on May 1 merged into a stock company, organized under New York laws with a capital of \$20,000, to be known as the Schwake Seed Co.

THE Rockford morning *Republic* reports that the syndicate of which Hiram W. Buckbee, seedsman, is a member, put in a bid for the government seed order under the name of Landeth & Co. Philadelphia and secured the business.

Morton and the Seeds.

WASHINGTON, May 5.—Congressmen are again after the Secretary of Agriculture, J. Sterling Morton, for the unsatisfactory condition in which their quotas of Government seeds are delivered to them. Each representative is entitled to 15,000 "packets," which have been divided and delivered by the departments in 3,000 packages, each bundle containing five packets, more or less, of different kinds of seeds. But the packages, which are done up in manilla paper and bear mailing tags, have nothing to indicate the character of their contents, so that in sending the seeds to their constituents Representatives have to open every package or send it a pig in a poke.

When the bundles are opened five packets of seeds usually are found, which are marked spinach, watermelon, squash, cabbage, &c., but when it is once opened the package is unmailable, and the seeds have to be repacked and sealed in another wrapper. Congressmen complain that the Department of Agriculture could have labelled each package so as to show the character of its contents without any difficulty or delay, and some of them insist that the Secretary of Agriculture adopted this method in order to annoy them and avenge himself upon them for compelling him to buy the seeds.

At the department it is explained that the resolution requiring the purchase and distribution of seed was passed at such a late date that there has been no time to arrange and label the package.—*N. Y. Sun*, May 6.

Cincinnati.

Business the past week has been good all around, several swell weddings and social events having occurred. The improvement noticed at the end of last week has fairly well held up and prices for good stock have been firm. We hope it will

continue so. Market as a rule has been rather slow this spring; prices are way down. Geraniums are retailed, 4 inch pots, from 75 cents to \$1 per dozen, and other stuff accordingly. Mostly all growers are done planting carnations, and are looking daily for rain. We do not remember of ever having such a dry and warm spring.

Recent visitors: Mrs. Lodder of Hamilton, and Mr. H. Behrens of Middletown. H. SCHWARZ.

Philadelphia.

Those who attended the May meeting of the Florists' Club, held last Tuesday night passed a very social and enjoyable evening. The essayist, Mr. Berry, had been unable to get his paper on forestry ready for this meeting, but promised to be fully prepared for the next. After considerable good natured bantering as to who had best manage the affair it was determined to have a planked shad dinner on the first Saturday in June, to which all members of the club, as well as their wives and sweethearts, were to be invited. Mr. Westcott is chairman of the committee having the matter in charge. Mr. Geo. Watson is another member, and their number was added to by the appointment of Messrs. Robert Craig, Edwin Lonsdale and Robert Kift, so as, Mr. Westcott said, to have some young blood to liven things up a little. Should the weather permit, this occasion will no doubt be a very delightful and most enjoyable event, and the first picnic ever given by the club.

Messrs. John Hackett, Mr. Myers of Myers & Samtman of Philadelphia and C. B. Weathered of New York were elected to membership.

The question "What is there new in bedding plants?" asked by Mr. Lonsdale, brought out quite an interesting discussion. Mr. Craig spoke of the newer French cannas that were driving the older sorts out of the market, owing to their great superiority in form of growth and flower. He mentioned Prima, a yellow with brown spots, as being a novelty of merit, and there were many of this new type that were very far in advance of the older kinds. Crotons were bound to make themselves felt, and there was a great and increasing demand for them. Begonias too were coming plants, as many of the newer fibrous rooted varieties bedded out almost like geraniums and were continually in flower. B. rubra was especially recommended in a partially shaded situation. Acalypha Triumphant, a new red leaved variety, was a most excellent plant, one that colored up well. Vincas rosea and alba, although old, were as satisfactory bedding plants as anything he knew of, and should always be found in a list of available plants for this purpose. Mr. Lonsdale spoke also of cannas, crotons and begonias. Begonia Erfordii he especially recommended, as it was always in flower both in the bed outside, and when transferred to the house it continued to bloom as if it never felt the moving.

He also spoke of the great value of the croton. Mr. Hueter of Girard College was the first to find out its good qualities as a bedding plant about ten years ago, and it is still to be seen in its best in

the college grounds to-day, in fact he believed the best bedding to be seen in America was that planted by Mr. Hueter at the college grounds. Mr. Hueter spoke of his work and said he discovered the virtue of the croton for outside work about ten years ago; he had a few planted and put them outside because he hardly knew what to do with them. He was told it was a mistake, as they would burn up in the hot sun, but he found they seemed to like the sun, and did well, and next season he tried a bed, and now he used them extensively, planting not promiscuously, but in kinds together, so as to get a better effect. A strong growing variety is given the center and a low bushy kind is planted for a border. They needed very little care, no pinching or trimming, as do coleus, an occasional syringing to keep down spider beings sufficient. They were easily propagated in winter, requiring, however, a little more heat than most other bedding plants. He was always glad to see any of the craft and would take pleasure in showing them about the grounds.

Trade is falling off in the stores and the boards are already going upon the house fronts in the fashionable sections of the city. Roses are getting smaller and the price is also falling a trifle as is the case with most of the other stock. There has been a war on the fakirs on Chestnut street and quite a number of these gentry were arrested and all their little stands had to go, although one of them showed a police lieutenant's permission to do business on his block. Charles Thomas, a colored man, has a large street business, employing a lot of boys, and this shut him off Chestnut street where his principal trade lay, but it was in the end a good thing, for now he has without rent the use of the old Baldwin conservatory with a large front on Chestnut above 11th until the property is sold, the owner giving him this privilege.

Faust Brothers of North 26th street were sold out by the sheriff May 4.

The Florists' Gun Club had a return match with the Penn Club of Norristown last Wednesday afternoon at their grounds at Wissinoming. The day was beautiful and the shooting for the most part good. The Penn. Club, however, took the lead at the start and were never headed, winning by 16 points. The score follows, each man shooting at 25 birds.

FLORISTS.		PENN CLUB.	
C. D. Ball,	16	Kerper	18
Geo. Craig,	14	Retter	14
I. Cartledge,	12	Cassell,	17
J. W. Colfesh,	14	Place,	16
J. Burton,	19	Cope,	11
W. K. Harris,	17	McNicholl,	18
Ed. Reid,	10	Kohl,	21
A. B. Cartledge,	23	Sheetz,	15
J. J. Styer,	16	P. Yost,	19
E. Edwards,	21	Weiderman,	19
L. Ball,	10	Smith,	21
G. Anderson,	21	J. Yost,	20
	193		209
			K.

C. H. JOOSTEN, Importer,
193 Greenwich Street, NEW YORK.
SPECIALTIES.
Bulbs, Azalea Indica, Palms, Roses,
and all kinds of Nursery and
Fruit Tree Stocks.
Catalogues on application.

White Roman Hyacinths

NARCISSUS GRANDIFLORA. **NARCISSUS PAPER WHITE,**
FREEZIA, extra, and many others good for forcing.
IMMORTELES in all colors. Catalogue on application

TELEGRAPH ADDRESS.
ROCHE, OLLIOULES.

ALPHONSE ROCHE, Ollioles, Var, France.

**Are you
Sowing****PRIMULAS?**

We are offering fresh seed of **PRIMULA FIMBRIATA** (Chinese Primrose) from the choicest English strains that cannot be excelled.

Alba Rubra, Alba Magnifica, Rubra Violacea, Chiswick Red, Meteor, Village Maid and Finest Mixed. PER HALF TRADE PACKAGE 50c; FULL TRADE PACKAGE \$1.

TUBEROSE EXCELSIOR PEARL, Select, 1st size bulbs, \$1.25 per 100; \$10.00 per 1000.

GLADIOLUS, FINE MIXED, \$1.00 per 100; \$8.50 per 1000.

CALADIUM ESCULENTUM, according to size, \$5.00, \$8.00, \$10.00, \$12.00 per 100.

WM. ELLIOTT & SONS, NEW YORK.

Mention American Florist.

VAN ZANTEN & CO.

HILLEGOM, near Haarlem, HOLLAND,

**Headquarters for High-grade Dutch Bulbs.
Finest and Largest Stock of best Forcing
Bulbs. Prices very low for First Quality.**

Ask for Wholesale Price List to

MR. S. ASCHER, 16 and 18 Exchange Place, NEW YORK.

NORTHROP, BRASLAN, GOODWIN CO.

Being **GROWERS** we are in a position to supply **Seeds of First-Class Quality** and to make **specialty low prices**. A trial will convince those who have not yet found this out.

NORTHROP, BRASLAN, GOODWIN CO.

20 to 28 Hennepin Ave., MINNEAPOLIS, MINN.

55, 57 & 59 N. Jefferson St., CHICAGO.

When writing mention the American Florist.

**VAN ZANTEN BROTHERS,
Hillegom, Holland.**

Extra quality of **HIGH GRADE FORCING BULBS AT LOW PRICES.** We now book orders for **Azalea Indica, Palms, etc.** The largest collection of sundry bulbs and plants.

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P. VOS & CO., Sassenheim, Holland,

GROWERS OF

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New, large-flowered, very fine quality.
Per Ounce, \$1.50.

**CHOICE FLOWER SEEDS
For Florists.**

Price List free on application.

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FLOWER SEEDS FOR FLORISTS
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Special prices on application.

**JOHN GARDINER & CO., Seedsmen,
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FANCY GALADIUMS

At less than ONE-HALF value.

Started plants (no dormant bulbs), at from
\$5.00 per 100 upwards. Only a
few thousand left.

Address **F. J. ULBRIGHT, Florist,
L. B. 655. ANNISTON, ALA.**

PLEASE mention the AMERICAN FLORIST
every time you write to an advertiser.

Florists' Sweet Peas**New Sweet Pea "America"**

Is more distinct and striking than any other variegated Sweet Pea in existence. And is of the large flowering type. Its color is a white ground and through the center of the standard is a wide carmine scarlet blotch veined with fine scarlet lines running toward the edges and showing in the same manner on the wings. The dashing contrast of the heavy scarlet blotch on the white ground makes the blossoms very effective in a mass of cut bloom or when flowering in the garden. It is indispensable for any complete collection of colors in Sweet Peas. Pkt. 15c; 2 for 25c; 5 for 60c; 10 pkts. \$1.00; 100 pkts. \$7.50.

BLUSHING BEAUTY, clear "Daybreak" pink, largest size. Oz. 5c; 1-4 lb. 12c; 1b. 35c; 5 lbs. \$1.50.

COUNTLESS OF RADNOR, clear lavender, very large flower. Oz. 5c; 1-4 lb. 15c; 1b. 45c.

EMILY HENDERSON, pure white, large early. Oz. 5c; 1-4 lb. 12c; 1b. 35c; 5 lbs. \$1.50.

HER MAJESTY, clear bright rose, very fine flower. Oz. 7c; 1-4 lb. 15c; 1b. 45c.

FIREFLY, brightest fiery scarlet, large. Oz. 10c; 1-4 lb. 20c; 1b. 60c.

MRS. ECKFORD, best large yellow. Oz. 7c; 1-4 lb. 18c; 1b. 55c.

MRS. SANKEY, large, white. Oz. 5c; 1-4 lb. 15c; 1b. 40c; 5 lbs. \$1.75.

INVINCIBLE CARMINE, deep crimson scarlet. Oz. 6c; 1-4 lb. 12c; 1b. 35c.

TRUE LOTTIE ECKFORD, white, blue edge, large. Oz. 5c; 1-4 lb. 15c; 1b. 40c; 5 lbs. \$1.75.

For other varieties see our "Book for Florists," sent free to florists.

VAUGHAN'S PRIZE MIXTURE SWEET PEAS, 10 lbs. \$7.00; 1b. 80c; 1-4 lb. 25c; oz. 15c.

ECKFORD MIXTURE, 10 lbs. \$5.00; 1b. 60c; 1-4 lb. 20c; oz. 10c.

Florists' Forcing Mixture, 1b. 60c; 1-4 lb. 20c; oz. 10c.

ALL COLORS MIXED, 10 lbs. \$2.50; 1b. 30c; oz. 5c.

If to go by mail, add 8 cts. per pound to above prices.

VAUGHAN'S SEED STORE,

NEW YORK:

26 Barclay St.

CHICAGO:

84 Randolph St.

A SMALL STOCK ONLY.**Now on Hand:**

DOUBLE PEARL TUBEROSES, large size, good quality, solid and well ripened, \$1.50 per 100; \$10 per 1000.

(250 at 1000 rate.)

Large No. 2 Bulbs, 75c. per 100; \$5.00 per 1000.

GLADIOLUS, CALADIUMS, AND OTHER BULB STOCK.

CATALOGUE FREE.

DAN'L B. LONG, Jobbing Florist, BUFFALO, N. Y.

The Directory

For 1896

IS NOW READY.

Price \$2.00.

**AMERICAN FLORIST CO.,
CHICAGO.**

Rochester, N. Y.

In the midst of spring work, all busy preparing for planting out and with the usual demand for spring bedding, the growers in this neighborhood have their hands full at present. In several places carnations and other stock has been planted out, others are just getting at it, and as the weather is continuing warm and pleasant, probably it is best for the young plants to be out in their summer quarters, though usually it is not safe to risk much planting before the middle of the month. The nurserymen are still packing trees and shrubs, but all stock is rather too far advanced in growth to do well, and if such trees are received and planted by the inexperienced, few of them will have a chance to live, still there always will be people who send in their orders at the last minute and are willing to take the risk. Large gangs of men are employed in the nurseries, planting out small stock in order to get it in before the weather gets too hot. Winter propagated evergreens and shrubs of all sorts, grafts of clematis, oaks, Japanese maples, lilacs, pines and other evergreens besides the many thousands of roses grown from cuttings constitute the bulk of the most valuable stock which has to go out into the ground, and considerably more care is exercised in planting this class of ornamental stock than there is in the planting of fruit trees of any description, and only experienced help is trusted with the planting of young ornamental stock.

The cut flower trade is very dull, nothing is going on; even funeral orders are few and far between, but flowers are plenty and the numerous stores are making good displays in their windows, but buyers are scarce. The weather is too pleasant and fine for dinners or parties, which the wealthy class usually arrange before real summer sets in, and they prefer instead a good long ride in the afternoon and evening, entertainments at home are out of the question as long as this fine weather lasts.

The annual report of James Vick's Sons was filed at the county clerk's office in this city, one day last week, showing the capital stock to be \$25,000, liabilities \$71,000 and assets \$44,000. J. B. K.

Toronto.

Weather still quite summer like and everybody busy as bees outside and inside.

The regular meeting of the Horticultural Society this week is to be devoted more especially to pansies.

W. E. Worden has bought a place in Eglinton about three miles out of the city, and is preparing to put up several rose houses.

The new Florists' Directory published by the AMERICAN FLORIST Co. is at hand. It is a most useful little book.

J. H. Dunlop reports business much improved during last week, with many wedding orders. Roses very plentiful, necessitating lower prices to effect quick sales, though best quality of best varieties bring good prices still. Sweet peas much in demand but supply short—violets poor and demand about ceased. Valley good and selling well—carnations very fine but short on Daybreak. Showing some fine white rhododendrons now. E.

SAN JOSE, CAL.—It is Frank E. Bourguignon, and not D. H. Bouguignon, that is connected with the new magazine, the *California Garden*.

IVORY! THE GREAT SUCCESS!

NOTHING IS IN MORE UNIVERSAL DEMAND BY FLORISTS THAN A GOOD, PRODUCTIVE WHITE CARNATION.

In **IVORY** you will have it. Try it and you will have a money maker. It produces as many blooms as Wm. Scott, is as perfect in form as any Carnation yet produced, held by a calyx that never bursts and carried on a long, wiry stem. What more do you want?

Fine plants from soil, \$10 per 100; \$75 per 1000. Stock ready now.

Also fine stock of *all the other leading varieties*. SEND FOR PRICE LIST.

GEO. HANCOCK & SON, Grand Haven, Mich.

HERR'S CARNATIONS.

LIZZIE MCGOWAN, WM. SCOTT, AURORA, IAGO, FRED DORNER and SWEETBRIER, all at \$1.25 per 100, or \$10.00 per 1000.
STUART, BOUTON D'OR, and PEACHBLOW, \$2.00 per 100.
STUART KING, ALASKA, and ROSE QUEEN, at \$3.00 per 100, or \$25.00 per 1000.
ANNIE LONSDALE, at \$10.00 per 100; and THOMAS CARTLEDGE, one of the most profitable carnations that grows, at \$1.50 per 100, or \$12.50 per 1000.

These are last of the season prices, and absolutely cash with the order, or C. O. D.

L. B. 496. ALBERT M. HERR, LANCASTER, PA.

The Crack Carnations:



SCOTT, ALBERTINI,
DAYBREAK, MCGOWAN.

Selected Cuttings, well rooted in sand and soil, delivery February 15th and later, \$2.00 per 100; \$15.00 per 1000.

Send your order at once, with cash, to get these figures. . . .

ALEX. MCBRIDE,
ALPLAUS, N. Y.

Surplus Stock. 8,000

Scott AND Daybreak

Extra strong transplanted.

\$15.00 per 1000.

JOHN BURTON,
Chestnut Hill, PHILADELPHIA, PA.

CARNATIONS. ROOTED CUTTINGS

WM. SCOTT, LIZZIE MCGOWAN,
\$10.00 per 1000.
DAYBREAK, TIDAL WAVE,
\$12.00 per 1000.

All in fine condition. No order for less than 500 plants desired. Cash with order.

C. SOLTAU & CO., 199 Grant Ave., Jersey City, N. Y.

CARNATIONS.

Rooted Cuttings in immense quantity, strong and well-rooted and particularly free from rust.
Daybreak, Wm. Scott, Thos. Cartledge, Tidal Wave \$2.00 per 100; \$15.00 per 1000.
Lizzie McGowan, Silver Spray, Portia, \$1.50 per 100; \$12.00 per 1000.
Lady Campbell Violets in any quantity, \$1.00 per 100; \$8.00 per 1000.

JOS. RENARD, Unionville, Chester Co., Pa.

Daisies.

LARGE DOUBLE WHITE, Large Clumps in bloom, \$2.00 per 100.

PANSIES ALL SOLD.

E. B. JENNINGS, L. B. 254, Southport, Conn.
Grower of the finest strains of Pansies.

CARNATIONS

Orders solicited for ROOTED CUTTINGS.

KOHINOOR takes the lead.

Other Novelties of the Standard sorts at standard prices. All healthy and strong.

C. J. PENNOCK,
The Pines. KENNETT SQUARE, Chester Co., PA.
Mention American Florist

CARNATIONS.

ROOTED CUTTINGS.

In large quantities, see list of varieties in FLORIST, March 21st. Send for price list.

H. WEBER & SONS, Oakland, Md.

DO YOU WANT CARNATIONS?

If so, why not GROW the BEST?

50,000 ROOTED CUTTINGS, including Daybreak, Wm. Scott, Goldfinch, Lizzie Gilbert, Emily Pierson, Lizzie McGowan, Tidal Wave, S. Spray, Hinz's White, &c. Can do you justice in quality and prices. Write me before you buy. Address CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

NOVELTIES FOR THE TRADE.

New Asparagus Sprengeri 30c. New Spirea Anthony Waterer 25c. New Climbing Meteor Rose 30c. New Golden Rambler, Yellow Souper, New Crimson Rambler \$5 per 100. New Justicia, New Double Rudbeckia, New Cannas, Carex Japonica, Bougainvillea, Gladioli, Dbl. New Life Geranium, Geranium Agnes Kewley, best pink. Send for Catalogue of Novelties and Trade Bulbs at low prices. A. BLANC & CO., Japanese Jardinieres at very low prices. List free. Philadelphia, Pa.

Tomato Plants

Stone, Paragon and Royal Red.
SWEET POTATO SETS, CELERY THINNINGS for transplanting and CABBAGE PLANTS.

20 cts. per hundred; \$1.00 per thousand. Larger quantities at lower rates. Cash with order please.
R. VINCENT, JR. & SON,
WHITE MARSH P. O., Baltimore Co., MD.

Ferns! CUT Ferns!

Choicest Daggers, \$1.00 per 1000.
10,000 lots or more, 90c. per 1000.

CURREY & CO., Nashville, Tenn.

Della Fox and Annie H. Lonsdale

ALL SOLD.
MYERS & SAMTMAN, Chestnut Hill, Phila.

CARNATIONS

Do not fail to order some of the **BRIDESMAID CARNATION**. The best pink to date. Plants from flats, \$5.00 per 100; \$10.00 per 1000.

We also have to offer the following varieties from flats. Sold out of all others. **NO RUST.**

	Per 100	Per 1000
METEOR.....	\$5.00	\$40.00
STORM KING.....	5.00	40.00
ROSE QUEEN.....	4.00	30.00
UNCLE JOHN.....	3.00	25.00
E. A. WOOD.....	3.00	25.00
DAYBREAK.....	3.00	25.00
WM. SCOTT.....	2.00	20.00

NEW CHRYSANTHEMUMS.

MRS. W. C. EGAN, }
TIPPECANOE, } 50c each; \$5 per doz.; \$35 per 100.
AMARANTH, }

New Begonia Lillian Harrington.

A cross between Alba and Rubra. Florets and sprays very large and of a deep rose color. The bronze green foliage and large panicles of flowers make it very attractive and desirable. 2½-inch pots, \$10.00 per 100.

Dwarf Scarlet Salvia Kobold.

Dwarf growth, only half the height of Splendens. Its early and free continuous blooming with its dwarf habit makes it one of the best bedding plants, and so much more attractive than the old tall growing Salvia Splendens now in use. 2-inch pots, \$4.00 per 100.

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We still have a few plants from 8-inch pots, very fine and good color, at \$3.00 each.

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A most desirable white cut flower, very free. 2-inch pots, at \$4.00 per 100.

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Seed. NOW ON HAND
FRESH CROPS

	per 100	per 1000
Arceia latescens.....	\$1.25	\$10.00
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The import of this variety did not turn out very satisfactory; above prices are for selected seeds.

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HERR'S COLD FRAME PANSIES, the strain that has made them famous. Per 100, \$1.75 and \$2; per 1000, \$12.50 and \$15.

COLEUS.

ROOTED CUTTINGS of red and yellow; also fine assortment of fancy, at 75c per 100; \$6.00 per 1000.

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L. B. 436.

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A GREAT AUCTION SALE.

Specimen Palms, Tree Ferns, Decorative Plants

— AND —

A Grand Collection of Orchids.

Messrs. A. & F. ROLKER will sell at auction on **MAY 20th and 21st NEXT**, at our Nurseries, the most unique collection of plants that has been offered in many years. The sale of Orchids will include many valuable specimens.

NOTHING BUT FIRST-CLASS STOCK WILL BE SUBMITTED.

Express train No. 23, leaving New York at 9 o'clock, will stop at Short Hills on above dates, in addition to those scheduled in time-table of D. L. & W. R. R. Take Christopher or Barclay Street ferries. A large tent will be erected for the purpose of the sale, and refreshments will be provided.

Parties unable to attend the sale can send in their bids to us, and we will be pleased to give them our personal attention.

PITCHER & MANDA,
SHORT HILLS, N. J.

For Catalogues apply to **A. & F. Rolker, 106 Liberty St., New York City.**

JUST IN TIME

To Render the Most Acceptable Service for
DECORATION DAY.

I am prepared to book your orders for prompt shipment on and after May 10, for
GRANDIFLORA CAPE JASMINE BUDS.

PRICES AS FOLLOWS:

1st quality, long stems.	\$1.00 per 100
2nd " "	.75 per 100
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In baskets by express, purchaser to pay charges
Terms, invariably cash. Special terms in large quantities. No shipments on commission.

Address **J. M. WEEMS,**
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PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address **GEORGE WITTBOLD,**

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PRICE \$2.00.

AMERICAN FLORIST CO.

Association Flora,
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CLEMATIS, Large-flowering sorts,
\$15.00 per 100.

Rhododendrons in sorts, **Pæonia**, **Bleeding Heart**, **Spiræa japonica**, **Azalea**, **Magnolia**, **Lilacs** and **Shrubs**.

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THROUGHOUT THE SEASON.

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VICK'S WHITE BRANCHING.....	per oz. \$2.00
" PURPLE ".....	1.50
" ROSE ".....	1.50
" SIMPLE'S PINK ".....	.75
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Trade packet of any of the above, 25 cts. or the set of five varieties, one trade pkt. or each, \$1.00.

Write for our Catalogue.

VICK & HILL CO., Rochester, N. Y.

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Alternantheras, red and yellow, 2½-in. pots.	\$2.00
Geraniums, assorted, 2½-in. pots.	3.00
" " 3-in. pots.	3.75
" " 4-in. pots.	5.00
Smilax, 2-inch pots.	1.50
Pansies, cold frame, small \$1.00; larger.	1.50
Verbenas, from seed.	2.00

Cash with order, please.

JOS. H. CUNNINGHAM, Delaware, O.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

St. Paul.

Warm sunshiny days have followed the dark wet days of April and business is correspondingly lively.

There has been a good demand for flowers since Easter, but the warm weather brought out an abundance of bloom and prices have taken a tumble. The cream of the stock, however, still brings good prices, and as Decoration Day and commencement exercises are near at hand we do not look for much of a slump in sales before June 15.

Plants are selling well, though the wet weather has delayed planting out. Bedding stock is a little backward, owing to the dark days, but has several weeks yet in which to make up for lost time. Nearly all of the smaller growers have stands at the city market, and all report good sales. The plant trade of the city seems to be done around the market, while a good many cut flowers are also handled at the same place. One party reports a sale of over 1,000 roses at the market in one day recently.

Supt. Mesbauer of the parks has a fine lot of bedding stock this year, and is rushing business as never before.

There is no outside stock in bloom yet. The season is backward, though the trees are now in full leaf.

De Cou & Co., who made an assignment some time since are again in business in the store formerly occupied by Venzke. R. C. Sieger has one end of the store devoted to flowers and plants. As it is centrally and conveniently located, has large show windows and in the heart of the city a good business in the florist's line will undoubtedly be done.

Henry Krinke has a window display of antirrhinum, iris, cannas, chrysanthemums, carnations, etc. His trade seems to increase.

L. L. May & Co. report a very fine business in the seed line. They also have a very fine display of gloxinia and calceolaria. Their shipping trade in the plant line is very heavy.

Chris Hansen is erecting a new rose house 40x100 feet three-quarter span, using 16x16 glass.

Chris Bussjager, a new one in the business, has erected a house 20x80 and has it well filled with bedding plants.

J. L. Johnson, who has been with L. L. May & Co. for four years, has accepted a position with the State Public School at Owatonna, this state.

Recent callers: P. J. Goemans of Hillegom, Holland; J. Rolker of New York, and Mr. Heming, representing F. E. McAlister.

L. L. May & Co. are busily engaged in sending out the government seed order.

FELIX.

The Oaks Greenhouse Co., Jackson, Mich.

	Per 100
Bezonias in variety, 2 1/4-inch pot plants	2.50
Chrysanthemums, 2 1/4-inch pot plants	2.50
16 Cuttings, standard vars.	1.00
Marquette Daisy, R. Cuttings	1.00
2 1/4-inch plants	2.50
Glechoma Hederacea, R. Cuttings	.90
Verbena, best strain	.75
Vinea Variegata, R. Cuttings	1.00
Cuphea, Pilea, German Ivy, etc.	1.00

If to be sent by mail add 10c per 100. Cash with order.

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For 1896.

IS NOW READY.

Price \$2.00.

AMERICAN FLORIST CO.

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Now is the time to plant all Hardy Aquatic and sub-Aquatic plants. Our collection embraces the newest, choicest and best in cultivation, suitable for pond, lake or fountain basin. Bamboos, Giant Reeds, Grasses and Hardy Perennials; also a grand collection of newly imported Japanese Mountain Peonies, magnificent for all styles of planting in Parks and Gardens.

Dreer's Garden Calendar for 1896, describing every thing, mailed free to those interested.

HENRY A. DREER, 714 Chestnut Street, Philadelphia.

30,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Extra fine plants, in bud and bloom, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, \$1 per 100; \$8 per 1000.

NO RUST OR MILDREW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.

We are the Largest Growers of Verbenas in the country.

Our plants cannot be surpassed.

J. L. DILLON, Bloomsburg, Pa.

300 Acres in Nursery.

1 Acre of Glass.

Specialties for Florists.

	Per 100
Cardenias, 8 inches	8.00
Crevillea, 12, 18, 24 and 36 in.	\$7.00, \$8.00, \$10.00 & 15.00
Eugenia Jambos, fruit bearing, 18-24 inches	12.00
Campor, 12-18 inches	8.00
Cuava Red Cattle, bearing size, 18-24 inches	12.00
Magnolia Fuscata, 8, 12, 18-24 inches	\$10.00, \$12.00, \$15.00, 25.00
Olea Fragrans, 8, 15, 24 inches	\$.88, \$12 & 20.00
Oranges & Lemons, grafted on dwarf stock, blooming size, stocky, 10-12 & 15-18 in.	\$25 & 40.00
Otaheite Orange, bushy, 10 & 12-15 in.	\$.88 & 15.00
Stock of above all pot-grown, ready now to ship, and in best possible condition.	
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DECIDUOUS TREES—500,000, for streets and lawns.
EVERGREENS—500,000, large, medium and small.
Correspondence solicited in reference to anything needed in the way of nursery stock.

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25 Rooted Cuttings of my NEW YELLOW MARGUERITE for \$2.00 by mail.

Nice 2-inch pot plants, ready for shift, 10 for \$1.00.

It is a pleasing shade of yellow, very floriferous, with a double row of petals, and stem 8 to 10 inches long. Sample blooms mailed on receipt of 10 cts.

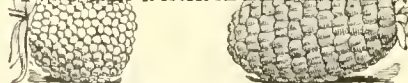
Strong 2 1/2-inch FISHERS for summer bloom, \$2.00 per 100.

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SPECIMEN PLANTS in 8 to 12-inch pots. Give size and lowest prices. Address

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On hand in splendid condition.

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Areca lutescens	\$1.50	\$10.00	\$47.50
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Geonoma Schottiana	1.75	12.50	60.00

Non-germinating seeds will be replaced.

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PALMS, Large, healthy stock, well grown.

ARAUCARIAS, From Cuttings only.

BAY TREES, Perfect shape, in all sizes.

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IN BEST VARIETIES.

ROSES, from 3-inch pots.

CARNATIONS, for fall delivery.

CHRYSANTHEMUMS.

SMILAX.

VIOLETS.

Prices low. Send for list.

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THE FAMOUS NEWPORT CANNA, "Mrs. Fairman Rogers."

Has all good points. Two Silver Medals and three First-Class Certificates awarded.

Plants, \$6.00 per dozen. Stock limited.

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ARAUCARIA, FICUS, PALMS, ETC.

Ask for prices.

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Branch of the Horticultural Co., Boskoop, Holland.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

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	Per 100
Amaryllis (Empress of India), 4 and 5-inch.....	\$25 to \$50 00
Artemisia, silvery foliage.....	3 00
Achyranthes, four kinds.....	2 00
Ageratum, White and Blue.....	2 00
Cuphea, 3 kinds, the best.....	2 00
Alyssum.....	3 00
Canna, Common, mixed.....	1 00
Coleus, all kinds.....	\$25.00 per 1000 2 50
Calla.....	\$4.00, \$6.00, 20 00
Cactus, in variety.....	5 00
Century Plants.....	\$10 to 15 00
Cyperus alternifolius.....	4 00
Croton.....	\$3 to 10 00
Cyclamen, 3 and 4 inch pots.....	8 00
Dracæna indivisa.....	\$10 to 20 00
Echeveria.....	3 00
Epiphyllum, Lobster Cactus.....	8 00
Eulalia zebrina, Zebra Grass.....	5 00
Euphorbia splendens.....	5 00
Feverfew Little Gem.....	\$2 to 3 00
Fuchsias, general collection.....	\$2.50 to 3 00
Gladiolus.....	1 50
Geraniums, all kinds.....	\$3 to 4 00
Hibiscus.....	3-in. \$3; 4-in. 5 00
Heliotrope, 2-inch pot plants.....	3 00

	Per 100
Hydrangea, 3 and 4-inch.....	\$5 to \$8 00
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Lantana, fine, best varieties.....	4 00
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Pandanus utilis, 2-inch pots.....	8 00
Swainsona.....	5 00
Petunia, double and single.....	4 00
Poinsettia, 5-inch pots, 20c each.....	15 00
Pansy, every variety.....	2 00
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	Per 100
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ROSES, Monthly and Tea.....	3 00
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Palms and Decorative Plants. Our Palms are in fine condition, and we make better inducements than ever before.	
Bedding Stock of all kinds.	
Send for Our Complete Catalogue.	

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BLUE PERFECTION.

As a cut flower, read what two of the oldest and best known houses of Philadelphia say:

MR. ALBERT KNAPPER:—This season we have worked up quite a little trade on Myosotis, and consider it a good cut flower for the retail florist, which I think will grow more in favor.

SAMUEL S. PENNOCK.

MR. ALBERT KNAPPER:—We take great pleasure in recommending a good article, and can say that your Myosotis is a fine, large, strong flower, of a grand color, and the best we have seen for a great while.

CHARLES FOX.

A GOOD INVESTMENT.

A GOOD KEEPER.

A GOOD SELLER.

EASILY HANDLED.

NO DISEASE.

ORDER NOW.

Has averaged at the wholesale market this winter from \$1.50 to \$2.00 per 100 flowers. Treatment similar to Violet Marie Louise or Carnations, from 40 to 50 degrees.

PLANTS, 2-in. pots, ready now, per 100, \$5.00.

ROOTED CUTTINGS, per 100, \$3; per 1000, \$25.

Cash with order please, or C. O. D.

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2-inch Pot Plants.

7000 ALTERNANTHERA AUREA, yellow.

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\$3.00 per 100; \$25.00 per 1000.

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CLEMATIS.

Two years, all large flowering, choice

named, leading kinds..... \$2.50 \$20 00

Strong, heavy plants..... 35c each, 4.00 30 00

H. P. Roses, 2 years, 4-inch pots..... 1.50 10 00

Clematis Jackmanni, nice young plants

for potting or planting up for fall sales 1.00 8 00

Daisies dbl. Eng. Snowcrest, Snowflake .50 1.00

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in 4 and 4½-inch pots.

FIRST SIZE..... \$10.00 per 100

SECOND SIZE..... 8.00 per 100

In 2-inch pots..... 2.00 per 100

C. LENGENFELDER,

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ROSES. ROSES. ROSES.

All the best New and Standard varieties for Winter forcing, or Summer blooming in the open ground, in Teas, H. Teas, Monthlies, Hybrid Perpetuals and Climbers. A grand stock of Mrs. P. Morgan now ready. Also

All the New and Choice **CHRYSANTHEMUMS** in fine condition; and in

CARNATIONS an extra fine lot ready for immediate planting, in fine, strong, transplanted stock of nearly all the leading varieties.

WRITE FOR SPECIAL PRICES ON LARGE LOTS TO

JOHN N. MAY, Summit, New Jersey.



PROFITABLE BLOOMS.

CUSHMAN'S GLADIOLUS BULBS

planted about **June 1st** throw fine spikes in **September** when flowers are scarce.

TRY A FEW.

Very fine mixed, \$1.00 per 100; \$8.00 per 1000. Cash please.

CUSHMAN GLADIOLUS CO., Euclid, O.

COLEUS.

HEADQUARTERS FOR ROOTED CUTTINGS

Per 100 Per 1000

Golden Queen, the only yellow, and Crim-

son Verschaffelt..... \$ 6.00 \$ 75

Coleus in variety..... 5.00 .60

Cuphea platycentra (Cigar Plant)..... 6.00 .75

Ageratum, blue and white..... 6.00 .75

Feverfew Little Gem..... 10.00 1.50

Fuchsias, to name..... 12.00 1.50

Heliotrope, to name..... 8.00 1.00

Salvia splendens..... 10.00 1.25

Rose Geranium..... 1.50

Alternanthera p. major and anrea nana..... 6.00 .75

Heliotrope, 2½-inch pots..... 2.00

Mt. of Snow Geranium, 2½-inch pots..... 2.50

Vinca variegata 2½-inch pots..... 20.00 2.50

Selection of sorts to remain with us.

Cash with the order.

J. E. FELTHOUSEN Florist, Schenectady, N. Y.

Mention American Florist.

Per 100 Per 1000

25,000 rooted Coleus, Verschaffelt, Golden

Gem, etc..... \$.50 \$ 4.50

Carnations, Wm. Scott, Daybreak, Alber-

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Pierson, Lizzie McGowan, Silver Spray.

These plants are extra strong, from 2-in.

pots in cold frames..... 3.00 25.00

Verbenas, fine plants in bloom, 2½-inch..... 3.00 25.00

Roses, American Beauty..... 4.00 35.00

Bridesmaid and La France..... 3.00 25.00

All plants guaranteed A No. 1.

ROSCOE SAUNDERS, Aurora, Ill.

BASKET PLANTS.

A choice assortment from 2½-inch pots, suitable for filling vases and baskets, price \$2.75 per 100. Further particulars on application.

WISCONSIN FLOWER EXCHANGE,

Box 87. MILWAUKEE, WIS.

We devote our whole attention to

DAHLIAS

WM. AGNEW.—New Cactus Dahlia of 1896; deep, glowing crimson-scarlet, clear and bright; 6 to 7 inches in diameter; deep and full to center, with beautifully twisted petals. 40c each, \$3.50 per 12. Send for descriptive Novelty list.

W. P. PEACOCK, Atco, N. J.

SEEDS ... FOR THE ...

Garden and Farm

Vegetable and Flower Seeds. All the

newest and best varieties—quality un-

surpassed, Illustrated Catalogue FREE.

WEEBER & DON, Seed Merchants

and Growers,

114 Chambers St., New York City.

E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

Please mention the American Florist every time you write any of the advertisers on this page.

Utica, N. Y.

Easter trade was very fair as far as heard from; larger sales of plants are reported, mainly *Harrisii*, *azaleas*, *spiræas*, *genista*, etc. Pans of valley, tulips, hyacinths, etc., were in demand.

The sale of cut flowers was somewhat interfered with by bad weather, but considering everything no one has cause to complain. Prices were about the same as usual, in fact it is out of the question to ask much advance over ordinary rates in a city of less than fifty thousand inhabitants and with over forty establishments selling plants and flowers. "Talk about the life of trade."

The warm weather which followed Easter has had a bad effect on trade and with the exception of some wedding and funeral work it is positively dull.

Roderick Campbell, for 21 years superintendent of Forest Hill Cemetery, presented his resignation on the 20th of April. When Mr. Campbell came here from Brooklyn in 1875 the association had only 90 acres of land. During his administration the cemetery has been enlarged by 150 acres. It has also been laid out on a permanent plan and greatly beautified, so that it is second to none in the state. A handsome conservatory has also been erected. Mr. Campbell leaves the cemetery with the best wishes of many friends. He will engage in the florist business at the corner of Genesee and Highland Avenue. F. J. B.

Little Falls, N. Y.

Walter Bonfield, the florist who disappeared on Wednesday, April 29, has not been found. He was seen at the greenhouse about 10 a. m. on the day mentioned, when he handed a paper to John Spence of New York, who holds a \$600 chattel mortgage on the greenhouses, saying he would be back in a few minutes, as he was going into a nearby store on business. He did not go there, but walked on up the street. He was seen and conversed with two persons after this. Had Mr. Bonfield anticipated leaving the city in the morning or the night before he would naturally have taken his gold watch and \$40 in cash, which he left behind. His indebtedness is said to be about \$2,000, which he could have probably paid all right with the business he was doing but for pressure being brought to bear on him. The friends of Bonfield fear that something has happened to him. It is to be supposed that had he intended going away he would not have left in his working clothes and with no ready money. Mr. Bonfield formerly had charge of the Overlook Greenhouse until he started in business for himself. F. J. B.

I have a surplus stock of **PELARGONIUMS** and **MME. POLLOCK GERANIUMS**, and offer them cheap.

PELARGONIUM VICTOR, 2½ inch pots in bud and bloom, \$3.50 per 100; 3½-inch pots, in bud and bloom, \$5.00 per 100; assorted at same price.

MME. POLLOCK GERANIUMS, 2½ inch at \$3.50 per 100; 3½ and 4 inch, \$5.00 per 100.

JAMES FROST, Greenville, Ohio.

CARNATIONS—Ready to Plant.

Extra fine, large and healthy from soil. Good as 2½-inch pot plants.

SCOTT, TIDAL WAVE, McGOWAN, \$1.00 per 100, \$9.00 per 1000.

Cash with order please.

H. L. PHELPS, Springfield, Ill.

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CHRYSANTHEMUMS.

CHOICE VARIETIES FOR JUNE AND JULY PLANTING.

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Ivory, 3
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Merry Monarch, 8
Mme. F. Beigman, 3

Dean Hole, 5
Edith Smith, 5
Mayflower, 8
Mutual Friend, 3
Mrs. McK. Twombly, 3
Miss Florence Pullman, 3
Niveus, 3
The Queen, 3

Mrs. Jerome Jones, 3
Mrs. J. Geo. Hs, 3

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Marquise de Montmort, 8
Mrs. E. G. Hill, 3
Nemesis, 5
October Beauty, 3
Her Majesty, 3

Helen Bloodgood, 5
Harry Balsley, 3
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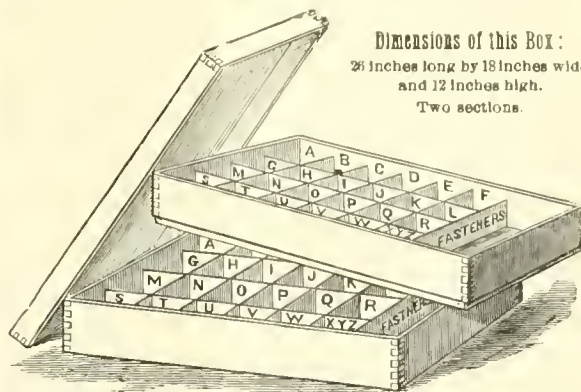
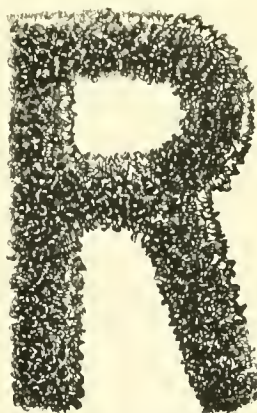
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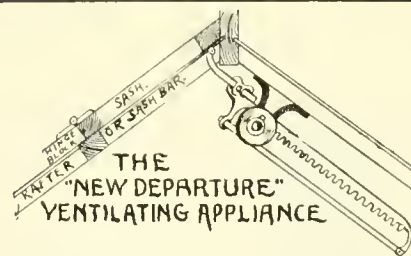
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News Notes.

BARRE, VT.—W. L. Draper of Montpelier has opened a branch store here.

SALEM, MASS.—J. H. Punchard has filed a voluntary petition in insolvency.

MONTPELIER, VT.—E. Jacobsen has opened a cut flower store in the E. M. Irish Building.

MASSILLON, O.—Mrs. J. H. McLain contemplates building a new greenhouse on her South street lot.

LYNN, MASS.—Paturel's flower store at 105 Monroe street was damaged by fire on the evening of April 20.

YONKERS, N. Y.—John Fursey has opened a plant, seed and cut flower store at 17 Warburton avenue.

BROOKLYN, N. Y.—Robt. McCullough, formerly in business on Montague street, has opened a cut flower store on Fulton street, near Bedford avenue.

GALESBURG, ILL.—I. L. Pillsbury held a spring opening May 1, 2 and 3. It was very successful, bringing a great many people to the greenhouses, which resulted in a good trade in plants and flowers.

XENIA, O.—The wife of W. P. McFarland died, May 2, of consumption, at the home of her parents here. Mr. McFarland was for some years with E. Hibbard, of Youngstown, and is now located at Akron.

LENOX, MASS.—The Lenox Horticultural Society held its first meeting for the summer season on Saturday, May 2. The meetings will be continued fortnightly with exhibitions of plants and flowers from May until November.

HAGERSTOWN, MD.—The first annual chrysanthemum show of the Washington County Floricultural Society will begin here November 5 to 7 next. The premium list has been printed and copies may be had on application to the secretary, Mr. Newton S. Owen, Hagerstown, Md.

PROVIDENCE, R. I.—The Florists' and Gardeners' Club of Rhode Island had a very interesting meeting on April 24. Messrs. Chappell, Canning and Hazard were appointed a committee to petition the city council for a resolution providing for the licensing of street vendors. Considerable discussion took place as to the advisability of the establishment of a florists' exchange.

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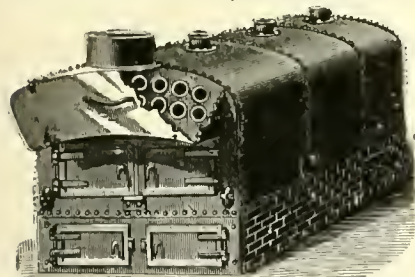
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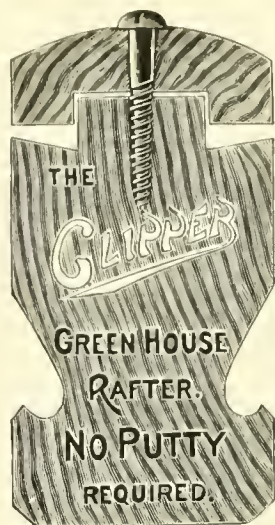
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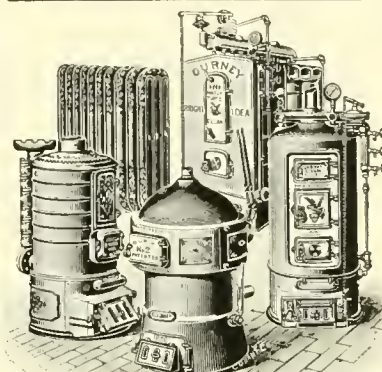
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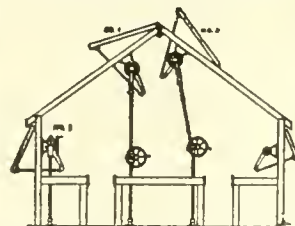
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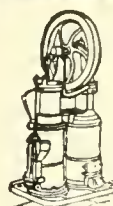
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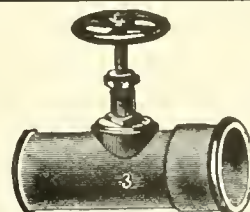
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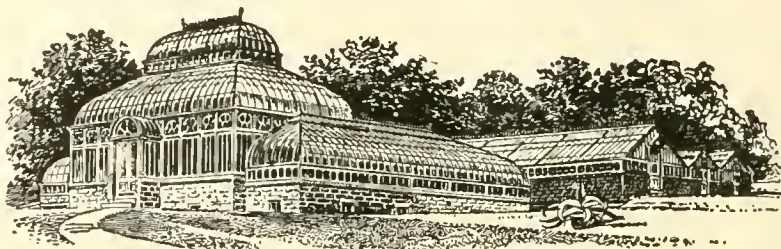
The Florists' Club met in the parlors of the Eagle May 5, with an average attendance, Vice-President Cunningham in the chair. Informal discussions were held on seasonable topics. The season is fully three weeks earlier than usual; the summer bedding is well under way. Geraniums, cannas and coleus are already being planted. Crabb & Hunter exhibited a beautiful specimen of the night blooming cereus 14 inches in diameter. F. A. Chapman and J. A. Creelman talked entertainingly. Mrs. Evelyn Arnold advocated the growing of Iceland poppies more extensively, it being in demand as a cut flower.

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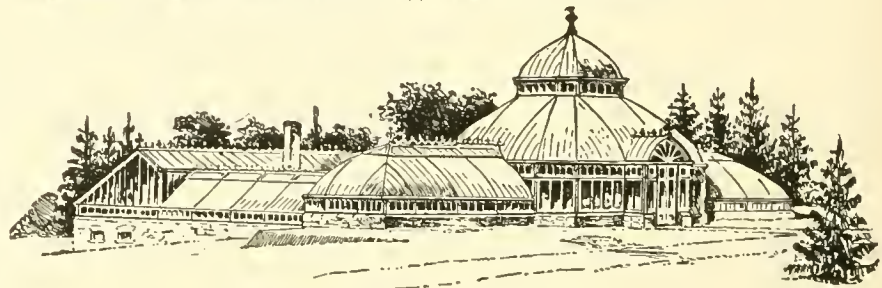
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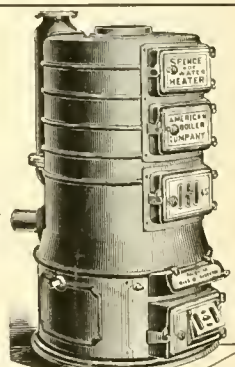
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SOCIETY OF AMERICAN FLORISTS.

WM SCOTT, Buffalo, president; ADAM GRAHAM Cleveland, O., vice-president; W. J. STEWART, Boston, secretary; H. B. BEATTY, Oil City, Pa., treasurer. The twelfth annual meeting will be held at Cleveland, O., August, 1896.

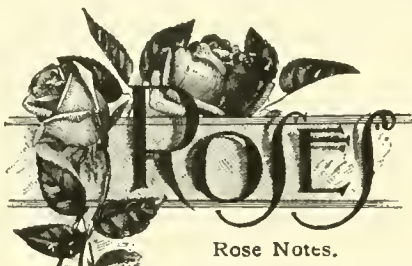
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ROBERT SCOTT & SON, of Philadelphia, lost about 1,200 square feet of glass by hail on the afternoon of May 5. They were insured in the Florists' Hail Association.

WILMINGTON, DEL.—W. H. Vance, 606 E. 7th St., is putting up 5600 feet of glass for commercial purposes. Herman Wolff, late foreman for Jacob Brown, will be superintendent.

MUNCIE, IND.—Mr. Henry Humfeld will soon erect a greenhouse at Frankford.



Rose Notes.

Unless the greatest care is given to ventilating it will be practically impossible to keep the old plants in the benches free from mildew. When the foliage is heavy and luxuriant it is not very liable to be attacked by mildew, but if the plants have become weakened by excessive heat, lack of nutrition or because of too much shade or in fact any other cause, it requires only a chill blast of air or a close damp atmosphere over night to produce enough germs to speedily fill the house. Sulphur should be frequently applied to the steam pipes, and if this is not effective the bellows must be brought into use, and the foliage covered; early in the morning before the ventilators are opened is the proper time to do the work, but to be thoroughly effective the house must be kept closed until the temperature reaches 85°, then ventilation must be given sparingly, and the house kept warm all day. It is doubtful if the sulphur will kill mildew unless we can get the fumes from it, this then is the point to be aimed at when we sulphur a house of roses. I imagine some critic will be saying as he reads this, "Haven't I read the same thing in the FLORIST over and over again? what is the use of writing that which everybody knows?" To which I would reply what is the use of knowing anything if you fail to carry your knowledge out into practice, as I find in going from place to place at this season, that whatever people may know about fighting mildew, they all the same, in a great many cases allow it to get the best of them, it cripples the foliage, makes the flowers unsalable, and the only thing the grower can do is throw them out, and replant. I remember a man who lost his position as foreman and also his reputation as rose grower, because he failed to conquer this enemy of the rose. The same is true of red spider, kept down he can give no trouble, but given a good start and we have lost the race.

If shading the glass has not been done it should be attended to without delay. Syringing and watering must be given their share of time, with an outside temperature of 95° it will not do to spare the water; a good hard syringe in the early morning, and one or two good sprayings overhead in the hottest part of the day, are absolutely essential if we are to cut any salable flowers. Hybrids in benches or boxes should be encouraged to make as

much and as strong wood as possible early in the season, by giving quantities of liquid manure, wood made late in the summer seldom matures, and consequently is of little value. A good liberal mulching would help them at this stage very materially.

The young roses in pots which are to be bedded this summer will demand a good deal of time and attention from now on, it is perhaps hardly necessary to say that they should be kept clean as regards spider, mildew, greenfly and weeds. As soon as it is apparent that they will be benefited by a shift into a larger pot, don't wait a week or two longer until indications of their going wrong compels the shift. Small shifts and frequent may be expensive as regards labor, but they are undoubtedly the safest and best. From first to last roses should be potted firmly. Much of next season's success may depend on the way your young stock is now watered and cared for, the most thorough and trustworthy man in your employ is the one to have charge of the young stock.

Houses intended for summer blooming should be planted now as early as possible, the end of April or very early in May is late enough, unless the houses are to be carried along all through the winter season; in which case very early planting may not be desirable. The varieties previously recommended were Meteor, Kaiserin, Perle and for pink Testout or Bridesmaid. Grafted stock of the latter variety planted early will give good results as a summer rose. Niphetos is a good summer rose for small growers who have a retail trade, but if growing for the wholesale market Kaiserin is the white to grow, it also is by far the most satisfactory ever-blooming rose out of doors that I know of; a hundred plants of this variety planted in good soil mulched and watered properly would produce basketfuls of roses through the summer and fall, just right for funeral or other work.

With the exception of Meteor I prefer solid beds for summer, they require less watering, give a cooler and more uniform temperature for the roots, and produce heavier growth and larger flowers. Thorough ventilation at the roof and side should be provided if possible. After filling the house with the very best soil it is possible to get I have usually sprinkled upon and mixed through it pure ground bone at the rate of 100 to 150 pounds to every hundred running feet, supposing the house is about 20 feet wide, and an equal quantity of wood ashes. If the soil is in any way deficient of manure an addition of 200 pounds of pulverized sheep manure to the same space as given above would enrich the soil very materially. For grafted stock deep planting is very desirable, not so with plants on their own roots, they should be low enough to merely cover the ball with the new soil. I

indorse what Mr. Scott said recently about planting firmly, few people indeed seem to realize the importance of making the soil round a plant firm, I have seen men otherwise clever plant roses so loosely that they would barely bear the pressure of water in syringing. Loose planting is always objectionable and especially so with roses.

ROBT. SIMPSON.



Carnation Notes.

We hear very often mention made and descriptions given of seedlings, new varieties, at this time of the year. Spring is not a good time to judge a new variety. To find its true value as a commercial variety we must make our observations at the beginning and middle of winter. We want winter bloomers, not those that only bloom well in spring. The influence of springtime is very great, and all varieties that never made any show through winter, or only furnished poor and imperfect flowers, will show up in spring, and surprise the owner with their beauty. One feels sorely tempted to overlook their faults, and take this exception for their true nature, when it is only caused by the invigorating springtime; they lack the push and vigor to respond to winter culture. And again, there is too much of the nature of the oldtime carnation in them, for we must not forget that the everblooming or monthly carnation made its appearance only about sixty years ago, and to my experience a very large percentage of the seedlings return to their spring blooming nature, as well as to the single form. The record of those that deserve further trial must be made in fall and winter and not in spring.

I received several communications and sample blooms to convince me that there are pure yellow carnations in existence. I am well convinced of that fact, for I have and have had them myself for years, but none good enough to venture a dissemination. I repeat again that I do not know of any pure yellow in general cultivation, or in the markets anywhere. They hang around in the background, afraid yet to show their faces. I believe a pure yellow would be a great acquisition to our list of varieties, and would prove a great seller. And when besides being a perfect flower it possesses the good qualities required to make it profitable to the grower, the possessor of such a variety may indeed have a gold mine, and could turn the pure yellow flowers into pure golden dollars.

The flowers sent to me came mostly in a spoiled condition, and on two or three blooms we should not base an opinion, that can only be formed by a daily observation for at least one whole season, and on more than one or two plants. Every grower of a new variety should be the judge of his own production, and when it is his honest opinion that it is good, send it out, do not hesitate; a good pure yellow carnation is wanted. This is an opportunity to make money.

What delightful weather, warm, too warm for May, but admirable growing weather. Those that neglected or had not the opportunity to have their young stock out, missed a very great advantage.

Keep the soil stirred now, never let it bake and get hard, keep the surface in a loose, mellow condition. We use the "Gem" hand cultivator, a very handy implement which does the work to perfection, and one man with this cultivator can do as much as five men with the hoe, and do it much better. It needs, once in a while, the use of a hoe in the rows between the plants to destroy the weeds. To keep the surface of the soil always loose and mellow is the greatest safeguard in a dry spell to retain moisture.

Do not overlook your soil in preparation for house culture; if recommendations given in my notes last fall were followed, give that soil attention. It should be turned two or three times from spring until fall. We simply turn it with the plow. Be always careful not to handle that soil when wet. When not rich enough, some manures that may be needed can be worked in with every plowing. To be more specific: We have two patches of soil for that purpose, each about 15 feet wide, running through a field about 300 feet long. When plowed this spring we plowed each patch together in a ridge, so as to have a good furrow on each side. When plowed again we plow them apart, leaving the furrow in the center, and the next time again together. This gives it with each plowing a complete turn, and with a great deal less labor than to do it with the shovel. Let it lay rough just as thrown by the plow, so it is well exposed to wind and weather. This helps to facilitate decomposition of the animal manures as well as the mineral and vegetable. To have a well prepared suitable soil for house culture is very important, it is the foundation and first step to success.

FRED DORNER.



Chrysanthemum Notes.

The chrysanthemum grower now has his hands full, especially if he grows a general assortment of plants, for the other plants are demanding all of his time, and too often the chrysanthemums are left to shift for themselves, and many a failure in the fall can be traced to early neglect. Under no circumstances allow the plants to become so dry that they wilt, for the wood will then become hard and the plants practically worthless. Better by far if they are so often neglected that they reach this condition to throw them away and start a new lot of cuttings. They can easily be struck now if watered plentifully in the bench and not set too closely together. A great many set the cuttings as closely now as they do in the winter, when there is bottom heat, and as much water is not required to make a successful strike as is from now on, and they therefore find that they lose a great many by damping off. After the first of May it is better to set them at least an inch apart in the row, leaving three inches between the rows. This will allow the air to circulate between them. Pot them off as soon as rooted, for it allowed to make any growth in the bench,

they grow spindling and grow hard very quickly.

It is now time to make up one's mind just how we intend growing our plants this year. There is said to be a falling off in the demand for the extra large blooms, and many of the buyers are calling for moderate sized flowers and sprays. The plants for large blooms should by this time be potted up, but there is yet plenty of time to strike the cuttings for plants to be grown for any other purpose.

Some time ago we advised the boxing or flattening up the cuttings from the bench, but after more trial we have gone back to growing them in pots. While they are much more easily cared for in flats, they often get crowded, and in transplanting into the benches the roots get badly broken and torn, and do not take hold nearly so quickly as those planted out in pots. The plants should be watched carefully and shifted up as fast as they need it; if you want success don't say "they will stand that size for another week," but set right to work and give them a shift, and keep them growing for all that there is in them.

ELIJAH A. WOOD.

Azaleas.

The accompanying photograph shows part of an azalea house of Keller Sons in Rochester, N. Y. as it looked the week before Easter. The house is a low old fashioned structure, but answers the purpose; there is no bench in the center of the house, the plants are set directly on the ground, which seems to suit them well enough. Around the sides and ends low benches are erected where the smaller and medium sized plants are placed. The house is kept rather cool, and usually there is no need of forcing the plants to get them in for Easter, but when, like in the present year the date is an early one, a few days in a warmer house will bring them out in good shape. Any of the plants left over, which have to be kept for another year, are trimmed into shape after they are past blooming and if needed get a repotting. Such stock will always flower more profusely than the newly imported plants, although it is very doubtful whether it would pay to keep over a large quantity. About the middle of May all azaleas in this place are taken out into the open air and the pots sunk in the ground. No shading of any sort is used, they get the full sun all day but are well provided with water, both overhead and at the roots and by fall are all well set with flower buds.

J. B. K.

Miscellaneous Seasonable Hints.

By the time these lines will be read my brother florists of the north will be about the bedding out campaign of the year. In our northern cities it is really unsafe to put out such plants as coleus, heliotrope or any plants that suffer with the slightest frost before the 1st of June. While geraniums and many other less tender plants can be bedded out ten days earlier, with the great majority of our patrons, there is a dense ignorance about the hardness of the plants they like to have in their garden, and it is the duty of the reputable florist to enlighten them. All of you doubtless have the same experience every spring. In walks Mrs. Neugarden about June 1, and she wants some coleus, pansies, geraniums, hollyhocks, hardy roses, etc. If the public knew that the proper time to plant hollyhocks and pansies was almost two months earlier than coleus time, how much less a strain



AZALEAS FOR EASTER.

it would be on the florist, for he who does a big plant business has now a most miserable time of it from about the 25th of May to the 10th of June. In fact, what would be a fair two months' work has to be crowded into three weeks. The above is written to impress you with the necessity of getting out all your orders just as fast as the plants can be safely planted out; put off nothing, for the last few days of the month will bring more work than you can get through on promised dates.

There is often a discussion among the florists whether we should charge for planting. There can be no rule or law about this. If there were an understanding between all the florists of a large city that the time taken to plant should be charged for it would be broken in a dozen different places the first day, because there is just where the smaller establishment would get in its work. "Oh yes ma'am, I'll plant 'em, Mr. Compost don't do that." The solution of this question is simply good judgment. Our rule is to say "Yes, if the bed or border is all prepared we will send a competent man to plant," and it pays well to do it. No help is asked for where a little small mixed up purchase is made, but where a good bed of geraniums or foliage plants is asked for it is much to your interest to see that the plants are set out right, and at proper distance. If the flower bed turns out fine you are sure of your customer again, even if you don't belong to the same congregation or won't promise to vote for McKinley. The poor florist is often imposed on, and while not being too stiff-backed it pays to stand on your dignity at the proper time, and always remember that unreasonable people are

no great profit to you. You will have them this year, your neighbor the next, and you will get them again before your hair is much greyer.

I have many times seen a load of plants go off to fill some flower beds, and in half an hour saw the man return with the empty wagon. His mission was to get a pickaxe, spade, rake and perhaps a jack screw to raise a corner of the veranda. Such business as that is what gave rise to that immortal saying which originated in the gardening days of ancient Babylon and is known as "rubbing it in." In such cases charge 50 cents an hour for the man's time, and you will come out all right. Now there is only one right way to put a plant in the ground, let it be either a carnation, a geranium or an *Abies canadensis*. Make an excavation larger than the ball of the plant, put enough earth around the ball to steady it in place, leaving a cup or hollow to receive the water. Finish planting the bed before you water, then a good soaking for each plant, and when the water has disappeared fill in the hollow with the dry earth. This watering is worth a dozen on the surface, and he that does not agree with me in this knows nothing about it. A carnationist who perhaps plants one hundred thousand may say it takes too long. I figured the expense of this careful way on a batch of twenty thousand carnations last year, and found it to be about 50 cents extra cost per thousand over what is too often the plan, just shoving them in and trusting to a rain coming shortly; watering on the surface and letting the sun bake the ground is useless. Tell your customers not to be sprinkling their flower beds every night;

tell them if the weather is very dry to give them a thorough soaking once a week and hoe the beds the next day.

A geranium that will be fashionable in our neighborhood this year is Mrs. E. G. Hill, a salmon pink, immense truss, and most vigorous habit and health. It is by no means new, and is widely distributed, if there be a florist who grows geraniums and has not Mrs. E. G. Hill, get it at once and plant some stock. I have none to sell.

The florists of this country, not all but mostly, do not harden off their bedding plants as is done in Europe. If plants are a few weeks or even a few days exposed to the full sun, and that can be given on all fine days by removing the sash from the frames in which you will have lots of the stock, they will be in much better condition to be bedded out. The larger proportion will be in the greenhouses, but there you can give air all you possibly can day and night and get along with as little shade as possible.

You will soon be filling vases in the cemeteries and veranda boxes. A most useful plant for the center of a vase is *Dracæna indivisa*. It is cheap, easily grown, and improves in the vase every day till fall. In fact when October's chilly blasts arrive it's about all that's left. You can buy them suitable for vases at a very reasonable cost, but you can sow the seed and raise them yourself, although it takes nearly two years to get a plant large enough for the center of a vase; for all that it is not expensive, as it is a plant that will take a back seat whenever you are crowded. Another easily grown plant is *Grevillea robusta*; it stands the drouth and wind which all vase plants have to endure and adds to the appearance of the vase. It is not too late to sow the seed, and that sown now will make fine plants for next year's work.

Don't put *Caladium esculentum* into a vase; its tremendous growing powers soon absorb all the right and title to the locality. It is however, quite a useful plant when used alone in a vase; that is half a dozen or whatever the vase will take, and breaks the monotonous everlasting red geranium and yellow coleus. Many vases are now ordered to be filled with one kind of plant. A pink geranium with an edging of pink ivy leaf geranium is tasty and subdued and in most cases the vases that are filled as above do better and look better than those mixed up. In pink geraniums *Emile de Girardin* and Mrs. Hays are still fine for the purpose. Mrs. E. G. Hill can't be beat. In scarlet *Prokop Daubeck* is fine for vases, and old Ernest Lauth is still one of the very best. Many fine varieties of geraniums which make a beautiful truss in the greenhouse are failures when exposed to the Sahara-like conditions of an iron cemetery vase.

Don't forget to sow a good strain of *primula* before the month is out if you want strong blooming plants next November, and if we get a cold rainy spell the end of this month don't fail to light up your fires if they should be out. Two days and nights of cold and damp will do you more harm than the cost of a car load of coal. Next week I will write about what I know about veranda boxes and what should be in them.

WM. SCOTT.

Narcissus.

The young growth showing flower stem and bud of *Narcissus alba plena odorata* is sent me with word from sender that they get so far and never develop. The enquirer has some years attributed the failure to late frosts, but says this

year that explanation won't do, as they have not been subjected to either frost or drouth.

I am of the opinion that the trouble is slightly the dry weather, and more than that the very hot weather we have had for several weeks. A cool wet season suits it, but hot weather is against it. At the moment when I received the enquiry and sample of "arrested development" I had at my elbow a Dutch bulb grower of many years' experience in Holland as well as this country, and he quite agreed that too warm was the trouble.

WM. SCOTT.

Vinca Rosea, or Madagascar Periwinkle.

At the last meeting of the Florists' Club of Philadelphia I am reported as saying in effect that among new bedding plants likely to be worthy of trial is the "Madagascar periwinkle." This will cause a smile of derision among the older school of florists and gardeners, because, to my own knowledge, this vinca was in cultivation as a summer bedding plant in this country twenty-six years ago—my first acquaintance with this useful plant. When Mr. Craig was called upon to state what he considered of value in flowering plants, among others he stated that the *Vinca rosea* and its varieties were worthy of more extended planting than was now the case. He did not mention it as a new variety; he only referred to it as more deserving of a place in the flower garden than was now accorded to it. When I took occasion to speak upon the subject I asked Mr. Craig if the *Vinca rosea* was not also known as the Madagascar periwinkle. I did this for the benefit of the reporters who were in the hall because I was under the impression that it was just as well known by that name as it was by its more correct botanical name, *vinca*. In the anxiety for trying novelties in bedding plants, for a time some of these old favorites drop out of sight, so to speak. That is the reason, I think, that Mr. Craig referred to it.

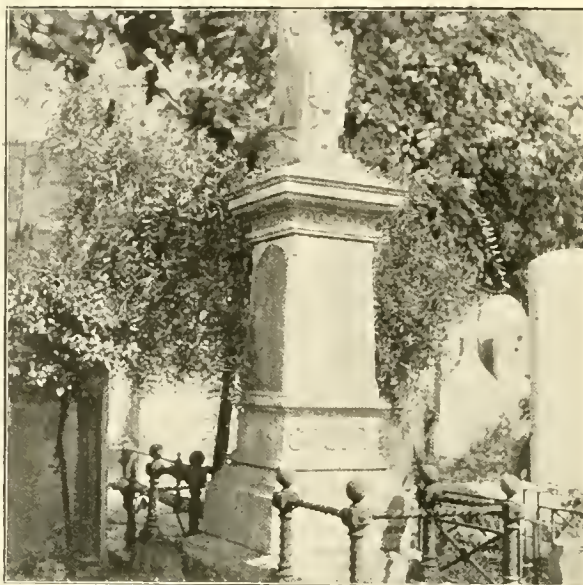
In the long years ago we used to endeavor to get the seed well up in January. It takes a strong heat to cause it to germinate, and that is one reason, I think, why it is not more generally grown as a market plant, or for bedding out purposes than is now the case. The seed is generally started too late. In its early existence it is rather slow in making progress, but after it is once established in a 3 or 4-inch pot it grows quite rapidly, especially when the weather becomes settled and warm. This matter is referred to because a person is oftentimes placed in a ridiculous light, and it is too frequently not the fault of the reporter, but of the person who is trying to make a speech without notes, as he has not the faculty of making himself sufficiently understood, nor does he realize how he has laid himself open to ridicule until what he has tried to say appears in print.

EDWIN LONSDALE.

Through American Eyes.

WILLIAM PAUL & SONS, WALTHAM CROSS, ENGLAND.

At this establishment there is to be seen one of the largest collections of camellias to be found anywhere. The plants are many of them very large and include all the best varieties; when in flower they must make a handsome display. In England, as it is in America, this plant is surely losing in popularity, and but little effort is made to raise new varieties or push the sale of the flowers. This firm has made a specialty of raising new varieties of roses



COURT'S MONUMENT, ERECTED BY HIS AMERICAN FRIENDS, BROMPTON CEMETERY, LONDON. THROUGH AMERICAN EYES.

and has sent out a number of hybrid remontants, among them being the well known *Magna Charta*. Two new ones recently sent out, *Duke of York*, a pink China, and *Lorna Doone*, a good large Bourbon, both looked promising.

A number of greenhouses contained grapes and roses in pots being grown to be ripened off for forcing. A house full of *lapagerias* was interesting; they were flowering freely; the house faced north and the plants were plunged and given bottom heat, which treatment was said to produce the best results.

There is also a large nursery containing hundreds of acres filled with all kinds of hardy ornamental evergreens, trees and shrubbery. A novel and beautiful feature is a fine grass covered avenue three-quarters of a mile long and twenty feet wide extending from the office to the boundary of the grounds. This is bordered on both sides, the entire length, with choice specimens of their stock. In addition to the grand landscape effect this array of well grown specimens must be invaluable to the salesman, as no doubt many orders are obtained from visitors who had no thought of purchasing until the beauty of the specimens and their attractive grouping compelled their admiration.

WM. COURT'S MONUMENT.

The monument in memory of the late Wm. Court was erected by his American friends and stands in the family lot in Brompton Cemetery, within a stone's throw of James Veitch & Sons' nursery, where he was propagator and salesman for so many years. Many of the new and rare plants of his time were brought to this country by him, notable among them being the famous *Vanda Sanderiana*. He was respected and esteemed by all who had the privilege of knowing him, and at his death the spontaneous movement among his friends in America resulted in this lasting evidence of their admiration for him.

K.

Herbaceous Plant Notes.

Borders planted to hardy herbaceous plants without the aid of spring flowering bulbs are now also beginning to look bright and gay with colors. In addition

to the plants mentioned in last week's issue, the following have been in flower for some time. *Stellaria Holostea* is in since the latter part of April, and the pure white, star-like flowers are now produced in great profusion and will usually last well until the end of June.

Trolliuses or globe flowers are in bloom early this season. *T. europæus* was the first to come out, and will continue to flower for several months longer, usually until the latter part of August or beginning of September. The lobed or dissected leaves, dark green in color, form a good background for the beautiful yellow globe-shaped flowers, which are so freely produced in nearly all the species. Old clumps attain a height of 1½ to 2 feet, while younger or newly transplanted stock will only grow 10 or 12 inches high. *Trollius asiaticus*, which as a rule produces its flowers earlier than the above mentioned, was a week later this spring with us. The habit and the growth of this plant is much the same as in the first named, but the flower is very distinct, of a decidedly deeper golden yellow, and the stems do not grow quite so high. The flowering time extends from early May throughout June.

Waldsteinia fragarioides, with rather large yellow five-petaled flowers produced in clusters of 3 to 6 on erect stems, slightly bent over at the top, is a desirable plant for the border, doing well in any ordinary soil, and requiring but little attention. Leaves are borne on rather long stems in a compact mass; height of plant 8 to 10 inches, flowering time May and June.

Iris florentina alba, of which the older clumps are now in flower has the erect part of the inflorescence pure white, the falls having a pale lavender tinge on white ground and a bright yellow beard, very fragrant and a large flower.

The pretty and profusely blooming *Viola cornuta*, with long spurred large open flowers, are also out now in white and blue. The latter color is used later on as substitute for violets in the cut flower market, for which purpose they are admirably adapted in shape and color as well as in the perfume.

Centaurea montana is opening its large handsome blue flower heads now, and produces a fine show next to a patch of



GRASS AVENUE IN WM. PAUL & SONS' NURSERIES.
THROUGH AMERICAN EYES.

the golden colored *Alyssum saxatile compactum*; the florets are deeply cut or divided into narrow segments, giving the flower a fringed appearance.

Centaurea montana alba, a white flowering variety, grows a few inches taller than this, and is equally desirable as a border plant.

Ethionema cordifolium, better known perhaps, under the name of *Iberis jucunda*, is a most elegant little plant, blooming from now until the end of June or July in dense little roundish flowerheads of a delicate rosy color with a white center in each little floret. The neat, clean habit and the compact growth, together with the small narrow linear foliage of a glaucous green, and its free blooming quality, is admired by all who see it, but unfortunately it is a rare plant, much more so than the taller *A. grandiflorum*, which blooms later on.

Polygonatum multiflorum you do not meet very often, though it is a very desirable plant; the flowers come out in threes or sixes from each of the leaf axils all along the stem, while the plant is in vigorous growth during the spring months. They are pure white with light green tips, in shape elongated narrow drooping bells, dangling on slender short stems all along the leafy stalk, which attains a height of 2 feet or over. They are easily grown in any rich garden soil in the open border, but are better in a partially shaded position, where they will continue to bloom much longer than when fully exposed to the sun. J. B. KELLER.

Rochester, N. Y.

San Francisco Annual Rose Show.

The annual rose show of the California State Floral Society took place on April 30 to May 2, and that it was an artistic, financial and social success was more than proven by the vast throngs that

crowded Maple and Marble Hall of the Palace Hotel during the exhibition. Exclamations of praise for the varied flowers were heard on all sides, and every variety of blossoms found its group of enthusiastic admirers. The opinions of the judges and public as well is that this spring display is quite the finest ever made by the Floral Society. Of course previous shows may have exhibited larger quantities, but nearly all agree that for quality and variety this one has never been excelled. It is very certain that this exhibition has done a great deal to arouse interest in the California State Floral Society, and for the past few days applications for membership have been pouring in.

Mr. John H. Sievers made a very excellent display of carnations, showing nearly all the good varieties and a great number of seedlings. A great object of interest also was his show of pelargoniums, which is one of Mr. Sievers' specialties. These were indeed a treat and were greatly admired. This class of plants is receiving more than passing attention in California of late years. He also made his usual display of palms and ferns. E. Gill also showed a great number of his grand roses, as also did Mr. F. Ludeman of the Pacific Nursery.

One new feature about the show was the magnificent display of clematis by the California Nursery Company. These were especially well grown blooms and of a great variety. Paul Gallert of Colma showed some extra fine pansies and pelargoniums. Mr. Chas. Abram was there with an extra good display of finely grown decorative plants; some excellent rhododendrons were seen also.

The display of California wild flowers, by Mrs. W. S. Chandler, a prominent member of the society, was excellent. This lady displayed two hundred varieties of our native flora, many of which

were for the first time staged and classified. In the collection were such rare species as *clintonia*, *Calochortus alba*, and three different varieties of water violets, and also some excellent specimens of *nemophila*, commonly called baby-blue-eyes. Mrs. W. H. Weister made a magnificent display of California poppies. Her flowers were unusually large, measuring five inches in diameter.

Another object of much interest to the flower lovers was the new rose shown by C. J. Shatton of Petaluma. The bloom shown was of a delicate white, with just the faintest tinge of blush on the tips of the petals. This unnamed rose attracted much favorable comment and we hope to hear more of it in the future. The inmates of the Old Ladies' Home were the guests of the Society Saturday, and were all presented with bouquets. The following is the list of awards by the judges, to the satisfaction of visitor and exhibitor alike:

Amateurs: Largest and best collection of roses, John Henderson of Berkeley; best 25 varieties, Mrs. S. Stevenson of Alameda; best 12 varieties, Chas. J. Albhorn of Alameda; hybrid perpetuals, Mrs. N. H. Smyth of Berkeley; carnations, largest and best collection, Chas. J. Albhorn of Alameda; best 12 varieties, Chas. J. Albhorn; best collection of cut flowers, Mrs. E. Llewelling of San Lorenzo; clematis, Mrs. E. Llewelling. Pelargoniums, cut blooms, Chas. Albhorn; pelargoniums, plants, Chas. J. Albhorn of Alameda; pansies, L. J. Fenton of San Francisco; Mrs. Crane of San Lorenzo, honorable mention for mantel decoration.

Professionals: Roses, largest and best collection, F. Ludemann of Pacific Nursery; best 25 varieties, E. Gill of Oakland; best hybrid perpetuals, including hybrid teas, E. Gill of Oakland. Best specimen new rose, E. Gill.

Clematis: Largest and best collection,

California Nursery company of Niles. Pelargoniums, largest and best collection, J. H. Sievers of San Francisco. Best collection of foliage and decorative plants, John H. Sievers of San Francisco.

Carnations: Largest and best collection, John H. Sievers of San Francisco; best twelve varieties, John H. Sievers. Pansies, best collection, best collection of cut flowers, and largest and best collection of pelargonium plants, Paul Grallert of Colma; second, collection of foliage and decorative plants, Chas. Abraham of San Francisco; rhododendrons, largest and best collection, F. Ludemann of Pacific Nursery. The California Nursery Company of Niles was awarded a special prize for their fine collection of deciduous flowering shrubbery. METEOR.

New York.

A very meagre audience was present at the meeting of the Florists' Club on Monday evening to listen to Mr. Seidewitz's paper on the drift of the times. The slim attendance was undoubtedly due to the extremely hot weather, and was a convincing proof that the club had done well in voting to suspend the meetings during the summer months. Mr. Seidewitz was listened to attentively and at the close of his talk the various points he had touched upon were discussed with considerable vigor by Messrs. O'Mara, Donlan, Henshaw and others, especially that part referring to the tendencies to exaggeration in horticultural catalogues, which furnished a good opportunity for Mr. O'Mara to rise in defense of the catalogue men. He remarked that the spirit of change is a part of human nature, and that novelty will always be sought. The point is what to do to catch the eye of the people. Catalogue exaggerations are not confined to the United States by any means, there being as conspicuous instances in those of foreign origin. He believed that popular names for meritorious plants are necessary for their dissemination, and that the evolution of the florists' trade in the United States has been in the right direction and our florists as a rule are as honest a class of men as can be found anywhere or in any vocation. Much credit is due to the catalogue men who have done their full share to build up floriculture and from whom the public have gained most of their horticultural education. Mr. J. I. Donlan took the opportunity to call attention to the need of more suitable flower pots in which plants may be offered for retail sales and denounced somewhat sarcastically the use of paper or ribbon adornments on such plants.

A report was made indicating that the trustees of the club are in favor of a fall exhibition, provided a suitable hall can be found and a guarantee fund secured. Mr. O'Mara reported for the committee of conference with a similar committee from the Gardeners' Association on the project for a June show that arrangements had been made with the Children's Aid Society whereby two halls had been secured in the Newsboys' Lodging House in which to hold the exhibition on some Saturday afternoon about middle of June. Mr. Donlan supplemented Mr. O'Mara's remarks with a detailed account of what would be done to interest the children, the object being, he said, to bring the benevolent side of the club's work to the public attention, and thus help to build up an interest in the more pretentious fall show. Two silver cups have already been offered as special premiums, and it was voted that twenty-five of the club's silver med-

als be struck off and placed at the disposal of the committee in charge of the schedule.

The cut flower market has been in a demoralized condition for a week. The warm weather has driven in an enormous supply of both indoor and outdoor flowers, and the demand is very light in all lines. Lilacs, iris and other spring flowering stock is piled up on all sides and does not bring sufficient returns to pay the freight. Roses are so abundant that it is not possible to give quotations on prices that mean anything. From \$2 to \$5 a thousand is the rate at which the great bulk of the stock is disposed of, and it makes no difference what the variety is, American Beauty even having to go with the rest in many cases. Carnations are in rather better shape and the receipts are not so far out of proportion to the demand as is the case with roses.

The D. L. & W. R. R. has put on a special express car for the accommodation of the Madison growers. There came in over this road from the rose growing district on Monday morning of the present week, five hundred and twenty boxes of flowers. Judging from the number of new establishments to be erected in Madison and vicinity this season, next year's record will eclipse the present, and it may yet, if the increase continues, be necessary to give this enterprising community not only a special car but an entire train to itself.

John H. Taylor is enthusiastic over his success with old roses carried over from year to year. Houses of Bride, Bridesmaid and Perle already two or three years planted are to be retained and the young stock which has been growing for the filling of these houses will be sold. On the Brides referred to in last week's notes as being six years old there is a magnificent growth, and not a branch of the old wood remains.

The annual exodus of the fortunate ones to Europe has begun. Thos. W. Weathered sailed on the City of Paris on Wednesday; Ernst Asmus is booked for the Aller on May 30; A. T. DeLaMare will sail on June 3, to be absent six weeks, and J. H. Troy and wife expect to go about the same time.

Long Island has been suffering severely from drouth. The rainfall is from twelve to fourteen inches short of the normal for the past year. In the winter there was very little snow, and now crops are in very bad shape. Growers are considering the introduction of irrigation as the only solution of the trouble. How would it do to borrow St. Isadore's remains from Madrid and test its virtues as a rain maker on this side of the Atlantic?

Prof. Britton's lecture before the Gardeners' Association last Saturday evening attracted a large attendance. He showed a series of colored stereopticon views taken in the N. Y. Botanical Garden. There was an interesting display of plants and flowers contributed by a number of the members.

Mr. Henry Bird will deliver a lecture before the Orange Horticultural Society on June 18, on the Evolution of a Flower.

Mr. Grove P. Rawson will address the New York Florists' Club at one of its fall meetings, probably that in September.

Siebrecht & Wadley are cutting large quantities of unusually large and fine *Cattleya Mossiae*.

C. F. Christianson has moved from his old location on Broadway to a fine store one block below.

Mr. and Mrs. J. B. Nugent, Sr., celebrated the fiftieth anniversary of their wedding on Tuesday evening, May 12. Children and grandchildren and many

friends were present to extend congratulations, and many handsome gifts were brought to commemorate the rare occasion.

Chicago.

The West Park Commissioners seem to have some exceedingly "advanced" ideas as to what constitutes a park. The best authorities all agree that a public park should be a public garden, with restful landscape effects, where residents of a city can go to escape the turmoil of city life and get into closer touch with nature, but this has been branded as a rank error by the ruling majority in the West Park Board. They are expending some \$35,000 for a new barn in Humboldt Park, while 80 acres of that park are unimproved "for lack of funds." The Board was asked for \$25,000 with which to establish an arboretum and nursery which would have been a magnificent addition to the park, educational to the people, and immensely useful in supplying material for the further embellishment of the park, but they could allow only \$3,000 for the purpose, as all other available funds were needed for that precious barn. Landscape architects tell us that a barn has no place in a park, and that when its presence is a necessity it should be as unobtrusive as possible, and screened from view by judicious plantings of trees and shrubs. But in the opinion of the ruling majority of the West Park Board the reverse is true. The ornate barn is the main feature and the park useful mainly in setting off to advantage the architectural beauty of this structure.

In Garfield Park this body of wise men has expended some \$40,000 for a music stand and \$35,000 for a bicycle race track. A suitable music stand could have been built for \$5,000 and the race track has no right whatever in the park. It is an imposition on the people who pay the taxes for the support of the park, and in the mean time there is no money for the improvement of the park as a public garden, which is its only proper function.

In Douglas Park the enlightened gentlemen who compose the ruling majority of the West Park Board have expended \$40,000 upon a swimming school, which has no right whatever in a park, while 40 acres of the park are unimproved for lack of funds.

Evidently the West Park Board's conception of a park is a number of showy buildings with some land around them, having a few trees and shrubs of doubtful quality as a slight redeeming feature and acres of bare pasture, bicycle race tracks, ball grounds, etc. We advise the board to take a few elementary lessons from a recognized landscape artist.

Trade conditions during the early part of this week were the same as for three weeks preceding; a glut unrelieved by any activity of demand. Since cooler weather set in on Thursday conditions have been a little more favorable, and as usual stock is cleaned up more towards the end of the week. City retailers complain greatly of the unexampled dullness, and indeed they have little inducement to buy lavishly. A steady but moderate demand for white stock results from funeral orders, but this is all. Brides are falling off in quality, but will soon be replaced by new crop Kaisersins. Beauties are showing the effect of the heat, many of them being sadly bleached out. They range from \$1.50 to \$2.50 a dozen. Testouts bring the highest price of any of any of the other roses, \$4 to \$6 a hundred; others run \$2 to \$4, the latter figure only



EASTER VIEW IN STORE OF H. G. EYRES, ALBANY, N. Y.

applying to extra select stock. Carnations are the same as last week. Cold storage valley is held at \$3, and is vastly superior to the outdoor article at \$1 to \$2.

Among the outdoor stock peonies and irises are plentiful from Klehm and "The Grove," but the demand is not strong, even for the delicate and extremely fragrant Iris florentina, known to the trade as the "fairy iris." The peonies have been rushed out amazingly, and have lost both size and substance thereby. They are likely to be plentiful at Decoration Day, but it is doubtful whether the same may be said of any other outside stock; in fact it is feared that there will be a great dearth of the cheaper flowers. Cape jasmine from Texas has appeared, and is held at \$1.50 to \$2; a good deal will come in through the South Water street commission men.

In spite of the early season plant trade is very dull; it does not seem to be opening up at all. This is no doubt caused by the fear of a cutting frost; nearly every one last year lost a first planting, and trade is later this year in consequence; without doubt it will come with a rush about the last week in May.

At the meeting of the Florist Club last Thursday evening the matter of a protective association for the retailers was discussed. Only a few of the retailers being present, and these expressing doubts as to the value of such an association, the matter was finally dropped. It was decided to hold but one meeting each month during May, June, July and August. Therefore, the second meeting this month and the other months named will be omitted. The next meeting, which will take place June 11, will be devoted to hardy roses. There will be a number of essays on hardy roses and an exhibition of flowers of same on the same plan as the carnation meeting held some time since. Exhibitions are expected from several distant points in addition to what will be supplied by members of the club. Mr. Harry Bunyard, of Short Hills, N. J., was a visitor at the meeting.

Mr. J. C. Vaughan returned from the east last Sunday. He caught a severe

cold on the return trip and is now confined to the house.

The roses at Jackson Park came through the winter in first class shape. No florist in the vicinity of this city should fail to visit this rose garden during the blooming season next month.

Phil Hauswirth is now one of the great chiefs of the "Indians" of Illinois. Phil has always been very popular among the "Red Men" and he bids fair to soon stand at the head of the organization in this state.

There will soon be a baseball game between teams composed of "Wholesale Florists" and "Red Men." Let us hope the florists will not be scalped.

It is yet undecided whether the Chicago delegation to the Cleveland convention will require two cars or only two sections.

On Sunday, May 17, the first ball game of the season between wholesale and retail florists will take place on the West Side. The intention was to meet at Riverside, but the field being already held by a crop of hay, another battleground was selected. This will be the old race track where the same teams played last year.

Albert Fuchs has resumed business at his old stand, which has of late been operated by Julius Martini.

Visiting Chicago: Harry Bunyard, representing Pitcher & Manda.

Boston.

Boston is still in the same spot, although a returning wanderer would hardly believe it when he strikes that ancient landmark, the Common; there seems nothing left of it but a wilderness of sand pits, and barricades. They are even digging in it on Sunday, bless you! And just to think that these Bostonians of to-day are the descendants of Cotton Mather and others of that ilk. The Common dug up, and the evil work rushed through, not even stopping for the seventh day rest, no wonder the Divine Flower refuses to bloom freely in such a vicinity! Carnations here have been so scarce that large shipments have been coming all the way from Philadelphia. Welch Brothers

have been receiving from that source fifteen to twenty thousand weekly to help out and other firms have also been receiving in considerable quantity. George Sutherland tells me the business keeps quite good. Ever since Easter trade has kept steady and in more than usual volume. It is a rushing time with McCarthy & Co. between cut flower trade and three auctions sales each week. Norton Bros. are busy as usual and in a cheerful frame of mind as to the outlook. The other Back Bay retailers seem to be doing their share, and make a brave show in their big windows, the displays of Delay & Son, Wm. E. Doyle and Doogue & Co. being especially noticeable.

There's at least one man satisfied with his bulb stock this year, and that is John Fee, out Jamaica Plain way. Everything he planted did well, sold for good prices, and sold clean. John's a shining example to the rest of the craft. The seedsmen ought to give him a medal. Wm. E. Bowditch will take a trip to Japan the coming summer and fall. Sam Neil is still to the fore and growing some good roses, but like all the rest of the wealthy boys is growling about prices. Neal Boyle is cheerful and thinks that \$6 a hundred for pinks is not any too much. Some folks are never satisfied. Mike Aylward, is doing his best to keep up with the procession in the rose line. He is severely handicapped with the present range of houses which are now rather the worse for the lapse of time, since they were turned over for commercial use. Another year will probably see the last of them.

Tom Cox is as spry as ever, and would rather talk about horses than flowers; nevertheless it's a pleasure to look through this flourishing establishment which as usual is the pink of perfection in all departments. Lawrence Cotter's is another of the places that are always in excellent shape and a pleasure to look at. Lawrence will grow no more Mermets after this season; Bridesmaid is better. Meteor does well here. I saw some Mrs. Morgan; was told it was a "great thing" and strictly forbidden to give the fact away. So there's a pointer on the strict Q. T. for you. However, my friend Mr. Lonsdale told me the same thing about a month ago and said nothing about keeping it dark, so I guess Lawrence will forgive the breach. Tom Meade has been a sick man all winter; but is now able to again look after things. His crops look well at present.

G. C. W.

Edward Hatch will conduct plant sales at 15 Province street, on May 19, 21, 23, 26, and 28, at 10 a. m.

Pittsburg.

The florists are still complaining about the dullness in the cut flower branch of the business, the majority only experiencing about two good days of business during the week. The trade in bedding stock has only been fair, with a downward tendency in prices; but all are hopeful that the coming two weeks will alter the status of affairs, and without a cold backset, will see the bulk of the stock disposed of. Memorial Day, May 30, is so universally observed here, and more plants being used each succeeding year at that time, will very materially help swell the demand. The quality of the plants now offered this season is very good, above the average.

The National Saengerfest meets here early in June and a large number of visitors are expected, estimate over 150,000. The merchants are commencing to look

up the matter of decorating, and the florists are busy at designing and making estimates for them. This will be quite a boom if all goes as expected. The hall in Exposition building is nearly finished, capacity about 20,000; it is to be elaborately decorated. This with the number of arches, stores and dwellings also to be in holiday attire will make a large amount of business, and as flowers and song are so intimately connected our florists and decorators are very complacently looking forward to the month of June. REGIA.

Toronto.

The Horticultural Society has secured Professor Saunders, Director of the Experimental Farm, Ottawa, to give a lecture at St. George's Hall on Tuesday the 12th. "Ornamental Horticulture for Canada" is the subject of the lecture, and it will be accompanied by lime light illustrations.

The thermometer during the last four days has been hovering about the 90 mark, and has actually beaten the May record, in consequence cut flowers have been altogether too plentiful and could not be kept in condition for any length of time. Many have come to the scavengers. The market and plant trade has been pretty good, and is in full swing now, though there is very likely to be another cold spell yet. It has not been a good spring for planting trees, as the continued mild weather since the beginning of April brought things into leaf so very quickly. Pansies are coming into fashion for spring bedding here very much and are likely to be largely used next year. There are many other plants for this line of bedding which florists would do well to go in for in the future.

There is a deal of educational work in the horticultural line to be done in this city yet, especially amongst those in high places. The mayor (who is one of that kind of people who are always wanting to reform something whether he understands it or not) has lately been paying his respects to the parks and gardens department, and threatening to reform it. Horticulturists, however, and those who understand anything about the subject, although allowing that reforms are desirable and even necessary, do not by any means think that the reforms proposed by the mayor would be improvements. For instance one of his proposed reforms is to sink the parks and gardens into the Works Committee, so that the City Engineer (a good man in his place) instead of a Park Commissioner would direct the management of the parks and gardens. This as the Horticultural Society took occasion to emphatically tell him by means of a unanimously passed motion at its last meeting, would of course be a decidedly retrograde step. The present park commissioner, who is a gardener bred and born and a horticulturist through and through of the kind necessary for his position, has by means of great tact (how few possess this inestimable faculty) in dealing with his committee brought the parks and gardens to a state of perfection to which few if any considering the means at his disposal could have done. Of course perfection has not been reached by a long way, but if the mayor, instead of relegating the parks and gardens to the department of sewers, water works, etc., would give the commissioner more scope, power, men and money he would find that he was reforming in the right direction, and that the parks and gardens would flourish as a green bay tree, making the city more

attractive to live in and to visit than it is at present. Surely it is hard enough now teaching the public proper respect to well kept parks and gardens without the chief magistrate trying to lower them to the position of simple play grounds for children and commons for the masses to roam at will. It may be necessary that some of the parks or parts of them should be set aside for this purpose, but lovers of the beautiful have their rights too and are ready and willing to pay for them and to have them respected. And it is absolutely necessary that a competent horticulturist should be at the head of the parks and gardens system, as other cities and towns are finding out, if improvements in this line are to be made. The Horticultural Society and the Gardeners and Florists Association should fight till their last breath for this. E.

Rochester, N. Y.

The situation in the cut flower market remains about the same as last week, stock is rather plenty and no high prices are obtained. Roses and carnations are showing the effect of the warm spell. We have still a daily supply of fairly good violets here, the late tulips are selling well, especially the *Gesneriana*. Outdoor grown valley is in, but it is inferior to that grown under glass; white narcissus are very good yet in spite of the dry and warm weather. *Pæonia tenuifolia* takes well, wherever it is offered. Lilacs are also abundant, the whites bringing the best prices.

But few decorations have been called for lately and none of them were very elaborate, the store men seldom have a real busy day now, even though the trade in bedding plants is beginning to be rather lively, but prices are by no means satisfactory to the growers. At \$1 per dozen for good geraniums in 4 inch pots there is not much money in them for the retailer either, and in some places equally good plants are offered at the rate of 3 for 20 cents, other stuff is sold equally low. Pansies have dropped down to 25 cents per basket, and are very plentiful at that figure.

Considerable planting of shrubs and trees was done this spring in our parks, the work has been pushed along vigorously by Mr. J. Dunbar, the able assistant superintendent of parks, so that now all the parks are in fine shape and attract the admiration of all visitors, especially in Highland Park, which a few years ago was not expected by the uninitiated to ever be much of an attraction, the undulating surface of the grounds planted here and there in large masses of flowering shrubs, produces a most charming effect, viewed either from an elevation or from a lower point in the ravine, and in some parts these grounds may really be called more of a flower garden than a park. Most creditable work has been done here considering the limited amount of money appropriated for the purpose. Seneca Park with its natural growth of trees and shrubs along the steep banks of the Genesee river below the falls is worth seeing at this time of the year, the almost perpendicular slopes are clothed with verdure in all shades, profusely intermixed just at present with pink, yellow and white blossoms on trees or shrubs of every description, almost biding in most places the rocky irregular surface of the banks of the river nearly down to the water's edge. Nature has here provided us with a beautiful strip of land, which, with but little assistance in widening existing old paths or Indian trails, and the

planting of a number of trees and shrubs in some sections, was transformed into a veritable little paradise, such as no other park in the country can compare with, travelers tell us that nowhere in all the United States are to be found so much natural picturesque beauties condensed in such a limited space and the Rochesterians are grateful to Superintendents Laney and Dunbar for developing the natural scenery of this wild spot in so perfect a manner and in so short a space of time. J. B. K.

San Francisco.

Business at present here is far below what it was this time a year ago. A great number of the flower buying people are out of town attending the flower carnivals in different parts of the state, and their absence is felt severely in this market. The late frosts have injured all outside roses to some extent, thereby creating a demand for good inside stuff. We note that there are some excellent Testouts and Perles now to be had. Mermets and Bridesmaid are of a very inferior quality. Beauties are not at all over-plentiful, while Portia carnations, which for several weeks past have been scarce, are now coming in freely. Some excellent Scotts are now seen daily in the florists' windows. Never were lilies such a glut as at the present time; the quality of them is very fine but all they bring is from 75 cents to \$1 per dozen stems. Violets are coming in in large quantities after the late rains, but do not seem to take well at all, the chief reason being because they do not last any time after being picked. Sweet peas are coming in slowly and are in good demand, the quality of them also being excellent. We note some Cupid in pots in bloom at Mr. Lynch's place. The flowers are of a fine size but the stem is rather too short.

Mr. L. Vaughan of Chicago is in town on his annual visit to the Pacific Coast. Mr. Vaughan reports business as good, and is an interested spectator at the carnivals.

Mr. Fred Reiss, who has been in the nursery business in San Rafael for some time past, has sold his nursery and as yet is undecided as to his future movements.

The flower show and "Carnival of Roses" at San Jose eclipsed the Los Angeles fiesta and every other festival ever held in California. The "Garden City," as San Jose is called, covered herself with glory in this, her initial carnival. The floats were grand and as a general rule the quality of flowers used was excellent. I will give a detailed account of the flower show in my next, as it is claimed that it was one of the finest exhibitions of well grown flowers ever held here.

The spring show of the San Mateo County Floral Society closed on the 2nd and was a great success. The total receipts for the carnival were over \$1,000, which is a very excellent showing for the first time. Mrs. Schraeder received first premium for her collection of sweet peas. Mrs. A. Dond of Menlo Park received first for collection of roses. The wild flower display by the children was one of the very interesting features of the show. The society feels greatly elated over their success, and is already preparing for their annual chrysanthemum show in November.

Mr. Chiffari, the rose grower, had a narrow escape from death the other morning, while his delivery wagon was stopped opposite a florist's on Sutter street the vehicle was struck by a cable car and both the horse and driver were injured.



ERICA MELANTHERA VAR. NIGRESCENS.

Mr. John Jack, who has been inside foreman for the Sunset Seed Co. at Menlo, resigned his position last week and at present is in San Francisco. Mr. Thos. Mitchell, who formerly held that position succeeds Mr. Jack.

Mr. Peter Rock, who has been seriously ill of late, is now himself again and is seen at his post of duty. METEOR.

Cincinnati.

The regular monthly meeting of the Cincinnati Florist Society was held May 9, and called to order by Pres. Gillett. The meeting was well attended; the show was supposed to be a pansy show, and as such advertised in our local papers. Owing to the dry and hot spell which prevailed over this section of the country for the past six weeks pansies suffered a great deal, and our pansy show was therefore a failure. Roses, carnations and orchids made up the show. Mr. H. Sunderbruch made a creditable display of orchids. One specimen plant of *Dendrobium nobilis*, with at least 25 spikes, was much admired, also a plant of the popular *Odontoglossum vexillarium* was well done.

The following are those to whom certificates were awarded: H. L. Sunderbruch, for cross made of purple pansies, finishing touch of cypripedium and adiantum; Farleyense fern, *Dendrobium nobilis* and *Odontoglossum vexillarium*; Scott, Daybreak and McGowan carnations; Bridesmaid, Meteor, Bride and Morgan roses. Hoffmeister Floral Co. for Bridesmaid, Mermet and Perle roses. C. C. Murphy for pansies. Wm. Murphy for Uncle John, Portia, Silver Spray and

Grace Wilder carnations and sweet peas. Magrie & George, valley.

There were 26 entries made. Mr. H. L. Sunderbruch, being fortunate enough to receive the highest number of awards during the year, was consequently entitled to the gold medal. Mr. Giesy of Lockland Lumber Co., in a neat little speech, presented the gold medal to Mr. Sunderbruch, who in turn thanked the society in a most becoming manner.

The committee appointed a month ago to select a suitable place for the meeting of the National Carnation Society reported. The Gibson House and College Hall were selected and approved by all present. College Hall being centrally located will do admirably well for the occasion.

The committee on arrangements for the picnic and outing also reported; Coney Island was chosen. We invite all our neighbor florists to participate on July 23. We expect all our friends from far and near to join with us, and we guarantee them a good time.

After the routine of the regular business Mr. Wm. Murphy read a paper on "Why carnations go to sleep." A lively discussion followed, which made it very interesting to hear the different opinions of various growers. This was one of the best meetings we had this year; they all felt enthusiastic. H. SCHWARZ.

Erica Melanthera.

Our illustration represents a two year old plant of *Erica melanthera* var. *nigrescens* as grown for the New York market. This is the most popular variety, as well as one of the most beautiful, and a num-

ber of growers have been producing it successfully in large quantities in recent years. Mr. Louis Dupuy, the grower of the plant illustrated, writes as follows:

"This variety, among the many which I have tried (some with very little success) has proved to be thoroughly at home here, growing much larger and with more flowers than it does in Europe. Propagated about February, potted in three-inch pots and plunged outside in the summer without the need of any shade whatever, they will by fall, if topping is well attended to, make nice plants. The second year they are shifted into 6 inch pots and left outside as long as weather permits. With proper care they will be covered with buds and can be had for sale from Christmas until Easter.

Cleveland.

There is nothing out of the ordinary to report except the weather, which remains steadily phenomenally warm, or rather, hot. The temperature has been unusually high ever since shortly after Easter, and the effect of it are now very apparent in the forwardness of all outside vegetation. Lilacs in some places are all gone, and everywhere are nearly so. Snowballs, that are often rather green at Decoration, are now in their prime. The same is true of deutzias, while pæonias are swelling very rapidly and will soon be in. May 30 ordinarily finds them barely in, save in the very earliest sorts. Of course the geranium fiend, who tells you how early he set out his plants last year, is loose again, and nearly frantic at the thought of the three weeks that he has already lost this season. Bedding out will shortly be in full swing in good earnest, in fact many florists have made a beginning already.

Cut flower business has been somewhat unsteady for some little time, and begins to droop more and more, with now and then only a little spurt. Quality also is suffering considerably under the influence of the heat.

At the last regular meeting but little business was transacted, the attendance being very light by reason of heat and pressure of outside work now needing attention. A.

Philadelphia.

The weather the past week has been extremely warm, 93° in the shade being registered, it has cooled a little and is now much pleasanter. All kinds of stock suffered and showed plainly the effects of the heat. All flowers are lower in price, the best Beauties go for \$2 per dozen, Brunners \$1 to \$1.50 per dozen. Teas, first choice, \$5 per hundred, all other rose stock is sold for what it will bring, the job lot price being very low. The takirs still manage to hold forth on the sidewalks, but must keep moving. They sell quantities of roses at 25 cents per dozen for very good quality and their Beauties at from 3 to 6 for a quarter certainly look a lot for the money. Carnations are still coming in fairly good in quality; the best now go for \$1.50 and very nice stock can be had for \$1. McGowan still holds the lead for the best all around white, in fact very little else is grown for this market. Sweet peas are now 50 to 75 cents per hundred. Valley is just about done outside and cold storage stock will have the call for the next seven months. Would it not pay to have small cases of 1,000 pips put up for cold storage during the summer and early fall months? Many of the trade can not use a larger quantity during the short time they last.

Herbert Pennock of Goldsboro, N. C., has sent some fine pæonies the past week. Lilac is done and snowballs are in full supply. Mr. Bunting has had some gladiolus which were fine and sold well, more of these flowers should be forced.

Robert Craig has a late house of Lilium Harrisii which should sell well, as they are about the only large decorative flower until the pæonies arrive. G. Anderson has still a fine lot of hydrangeas; they are a lot that have come on since Easter and have helped out many a decoration in the past two weeks.

There has been quite a lot of work for weddings, funerals and banquets, but the transient trade is falling off very fast. The stores are now being bothered with applications for lodgers, the old cripples have to be sent for and after receiving due care and attention are to be returned in the fall rejuvenated and looking like the plants they were when originally sold to the customer. It is easy to bring about a small specimen when enough storage can be charged to substitute a new plant, but with the larger stock it is different, and many a dealer has reason to wish he had never gone into the plant storage business, as while trying to please his best customer he often loses him.

At the semi-monthly shoot of the Gun Club Thos. Cartledge won the medal with 20 points out of a possible 25 and a handicap of 6, making 26 total. The other contestants were G. Anderson, 24, C. D. Ball 21, A. B. Cartledge 20, W. H. Taplin 14, Charles Kreis 14, W. K. Harris 13, Geo. Craig 12.

The regular monthly meeting of the Penna. Horticultural Society will be held in the hall of the College of Physicians, 13th and Locust Sts., May 19, at 8 o'clock.

The Philadelphia Bee Keepers' Association will entertain the society with some very interesting essays, illustrated by lanterns.

Premiums as per schedule of 1896 will be competed for, viz.: Clark premiums for summer flowering plants, Burpee premiums for Cupid sweet peas, Dreer premiums for vegetables and flowers.

DAVID RUST, Secretary.

St. Louis.

There are plenty of flowers of all kinds, and the cut flower trade is exceedingly dull in both wholesale and retail lines, with no indications of immediate improvement. The continuous warm weather with the thermometer mounting into the eighties on several days has had a very bad effect on stock in general and roses in particular.

Monday we had a good rain and some hail; no damage is reported as yet from the hail. A great many of the roses coming in now are badly mildewed. Jacqs. are in great abundance and sell at 50 cents per dozen; other roses, such as Mermet, Bride, Meteor, La France, and Test-out bring \$2 to \$3 per 100 for the best. Carnations are sold at 50 cents per 100, and fancy bring \$1 to \$1.50. Pæonies have made their appearance and bring \$2 to \$4. Sweet peas are still a drug on the market at 25 cents per 100. Outdoor flowers will soon be a thing of the past and Decoration Day will find the market for cheap flowers scarce. Smilax is not selling so well as it has been.

Mr. A. Y. Ellison will leave St. Louis on June 1 to take a position with N. J. Burt & Co., seedsmen of Burlington, Iowa.

After a lingering illness death came to Carl Beyer, Sr., on Tuesday, May 12,

aged 70 years. The family has the sympathy of all brother florists. Mr. Beyer was one of the oldest and best known florists in St. Louis, having been in business here for the last forty years. He leaves two sons and two daughters, all grown. The sons, Robert and Carl, will continue the business.

Mr. A. S. Halstead of Belleville, Ill., has been confined to his bed by sickness last week. He expects to be able to be out in a few days.

Mr. Work, with J. M. Gasser, Cleveland, Ohio, spent Sunday with us. He says that the Cleveland Club is organizing a bowling club that will be hard to beat.

The chrysanthemum show committee had a meeting last Wednesday night at Fred. Weber's store, and from the report of Secretary Schray everything is progressing nicely; prospects are for a successful show.

North Floral Co. will decorate the Grant Statue this year on Decoration Day. Mr. North reports that it will be more elaborate this year than ever before.

The bowlers had a good time Monday night. Frank Fillmore surprised everybody and himself by making 245 in the first game he rolled. This was the largest single score of the night. Fred. Weber rolled the highest three games, making 498. Frank Fillmore was second with 477 and Emil Schray third with 469.

J. J. B.

Lowell, Mass.

The flower beds and the lawns at the parks present at this time a most attractive appearance, and too much cannot be said in praise of Mr. John Oliver, the veteran florist, under whose care work of beautifying the public parks is going on.

Business is about holding its own, the quantity of spring plants, usually disposed of at this season of the year, keeps the florists quite busy. In cut flowers, there is but little being done at present, funeral work is about the only thing in that line to depend upon. The recent death of ex-mayor Jewett furnished Potter & Co. with considerable work.

Mr. J. J. McMannon, has decided to build a range of houses and grow his own flowers and plants. He has now in course of erection four houses, one 100x20 for carnations, one 50x20 for palms and two 50x20 for miscellaneous stock; hot water being the system of heating. Mr. McMannon intends to add to his plant from time to time. The houses are located in Brookside, on the Lowell and Lawrence road, overlooking the Merrimac river.

Mr. John Oliver has thus far rebuilt three houses; he intends to build additional houses during the summer.

HOMO.

Walden, N. Y.

During a visit to Newburgh I took the opportunity of visiting the Smilax King at Walden, a pleasant ride by the surface cars. I found Koffman busily engaged erecting 7 houses 120 feet in length, and in addition to these he has 17 more filled with smilax and Cypripedium insigne. His stock of the latter was a great sight; he undoubtedly has the largest stock in the world, consisting of over 250,000 growths, from which he anticipated cutting some 40,000 or 50,000 flowers next season. He had just unpacked a consignment of 55,000 growths, all in the best health. A. D.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—As headgardener. Best references exchanged. Many years employed by Newport and Lenox families. Apply to F. S. FOLLWELL, 511 North St., Pittsfield, Mass.

SITUATION WANTED—A florist and gardener capable of taking full charge of private place would like situation in country. Years of experience. Good references. R. R., care American Florist.

SITUATION WANTED—By practical florist; Scotch; lifetime experience; competent in every branch. Private or commercial. Prefer Western States. Address WESTERN, care American Florist, Chicago.

SITUATION WANTED—By competent florist and gardener; German, single man, with life long experience. Please state full particulars in answer. Address COMPETENT, 427 Auburn Ave., Atlanta, Ga.

SITUATION WANTED—In San Francisco or vicinity by first-class German florist, 30 years old, single; private or commercial; long experience; Chicago references. Address CARL VORBECK, 316 4th St., San Francisco, Cal.

SITUATION WANTED—To take charge by a practical grower of roses, carnations, palms, ferns, mums and general greenhouse stock; a life experience in Europe and this country; single. Address GROWER, care American Florist.

WANTED—First-class man to take charge of section of houses. Inquire at ROGERS PARK FLORAL CO., 41 Wabash Ave., Chicago.

WANTED—A single man for general greenhouse work; state age, experience and send references; wages \$25 per month and board. I. L. PULSIFURY, Galesburg, Ill.

WANTED—A gardener, capable of raising flowers and vegetables for private place, suburb of Chicago, small greenhouse. Must be neat and industrious. State references, married or single, and wages expected. Address S. H., care American Florist.

WANTED—10,000 Latinas, Kentias, Cocos, Araucarias, etc., 2 to 6-inch pots; 1,000 Ficus, Asparagus Plumosus, Dracena Massangeana and Linden; 2,000 young Ferns, in exchange for 3-4 inch roses (mildewed), 8,000 Smilax. State lowest cash prices, send samples. ALBERT FUCHS, EVANSTON AVE., CHICAGO.

FOR SALE—Two 9 section Carmody boilers, good as new. Price on application. LEWIS TURNER, Kenosha, Wis.

FOR RENT—Five greenhouses (5,000 feet glass) and five acres ground in a western city of 30,000. Address B & C, care American Florist.

FOR SALE—An old established retail store in Chicago, south side. Satisfactory reasons given for selling. Address M. K., care Am. Florist.

FOR SALE—A completed florist and gardening business cottage, greenhouses, hotbeds, sash, plants, valuable garden—everything that is necessary; no opposition in business; price \$4,000—\$2,000 cash, rest can remain on mortgage.

ADOLPH BALZER, Highland Falls-on-Hudson, N. Y.

FOR SALE CHEAP—Florist business; 5 houses, 5,000 square feet of glass, fine stock ready for spring trade; hot water heating, 2 sheds, dwelling, etc. All in good condition. Rare chance for the right man. To be sold on account of ill health. For particulars address E. TIEDEMANN, O'Fallon, Ill.

FOR RENT—For term of years: Nine complete and convenient greenhouses, four of them new last year; soil and houses especially adapted to roses and carnations; steam heat essentially new last year; plenty of water; four express trains pass the doors daily, stopping for stuff, pre-billed by telephone; fuel brought to boiler house by rail; a good brick house included in rental, also sufficient land. We are one mile from county seat, 10,000 inhabitants. This is a rare opportunity for responsible party, who can furnish approved security. Address

DR. ALFRED E. BAKER, 3125 Mantua Ave., Phila. N. B.—We ship to Phila., Broad St., by 5c. package system; N. Y., Balt. and Wash. are about equally accessible by rail, being about three hours.

BUSINESS CHANCES.

FOR SALE—The Anthony Greenhouses, long established, popular, well known greenhouse and cut flower business, well stocked. A bargain. Terms reasonable. Address

DEAMUD, care Vaughan's Seed Store, 84 Randolph St., Chicago.

Assignee's Sale.

As Assignee, I offer for sale a large and valuable stock of choice decorative and greenhouse plants. The business is thoroughly established, and near the thriving city of Tampa, Florida. Will sell in lots to suit purchasers, at private sale, at prices very much below the usual trade rates, or, will accept an offer for the whole stock at half its value.

List will be sent on application.

Address WM. HUNTER, Room 31 1st Nat'l Bank Bldg., Tampa, Fla.

NEW ROSE

"Mrs. PIERPONT MORGAN"

Listen for a moment to what a voice from far off Springfield, Illinois, has to say about our young stock of this rose:

May 4, 1896.
"EDWIN LONSDALE, Chestnut Hill, (Station H), Philadelphia, Pa."

"DEAR SIR:—Box of 'Morgan' rose plants arrived Saturday in good shape. Fine plants. I would like to know how you produce plants of such size in a two (2) inch pot?"

All I can say is that it is all owing to the natural vigor of the variety, and perhaps to some extent to the natural rose growing qualities of our soil.

We have a few more left of the same size. Order early or you may get left, for I do not know of a more profitable variety to grow for cut flowers than MRS. PIERPONT MORGAN.

Don't forget our address:

EDWIN LONSDALE, Station H,
Chestnut Hill, PHILADELPHIA, PA.

FOR SALE. FINE, HEALTHY ROSE STOCK.

Sure to give satisfaction; taken from stock that took First Prizes at Chicago Flower Show, 1895. Terms cash. Samples will be sent on application at the following prices:

	Per 100
500 LA FRANCE, 3-inch	\$5.50
570 WOOTTONS, 3-inch	5.50
225 KAISERIN, 3-inch	5.50
648 PERLES, 3-inch	5.50
275 PERLES, 4-inch	7.00
690 SIEBRECHT, 2½ inch	10.00
700 BRIDES, 2½-inch	3.50
190 KAISERIN, 2½-inch	3.50
575 PERLES, 2½ inch	3.50

Have about 800 PALMS at a bargain, 4 to 10 inch.

POEHLMANN BROS.,
Cook County, MORTON GROVE, ILL.

BRIDESMAID and METEOR. FRANK L. MOORE, CHATHAM, NEW JERSEY.

ROSES. Ulrich Brunner FROM 3-INCH POTS. No stronger and finer plants obtainable. \$5.00 per 100; \$50.00 per 1000. A. MEYER, 3218 S. Jefferson Ave., St. Louis, Mo.

ROSES. Fine stock from 2½-inch pots, \$4.00 per 100. ETOILE DE LYON, MAMAN COCHET, MRS. DEGRAU, BRIDE, MARIE GUILLOT, BRIDESMAID, MARY WASHINGTON, MME. HOSTE, MERMET, MME. F. KRUGER. TERMS CASH. NATIONAL PLANT CO., Dayton, O.

CHOICE ROSE PLANTS. 3-INCH POTS. PERLE, BRIDE, BRIDESMAID, METEOR, \$4 per 100; \$35 per 1000. These plants will please buyers. BRANT & NOE, Forest Glen, Ill.

TUBEROUS Begonia Bulbs. All colors separate. \$2.00 per hundred. \$18.00 per thousand. L. C. BOBBINK, Rutherford, N. J. Branch of the Horticultural Co., Boskoop, Holland.

Mention the American Florist when writing to advertisers on this page.

REINBERG BROS.,

Offer the Following Stock for Spring Planting:

Roses in 2 1-2 inch pots.

	Per 100	Per 1000
AM. BEAUTIES.....	\$5.00	\$40.00
METEORS.....	3.00	25.00
KAISERIN VICTORIA.....	4.00	35.00
GOLDEN GATE.....	5.00	
BRIDES.....	3.00	25.00
BRIDESMAID.....	3.00	25.00
C. TESTOUT.....	4.00	35.00
BELLE SIEBRECHT.....	4.00	35.00

Orders for less than 50 of any one variety not accepted. READY FOR SHIPMENT.

Carnation Plants.

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Strong and healthy young plants out black soil.		
WM. SCOTT.....	\$1.00	\$8.00
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Free of rust. Ready for immediate shipment.
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Send orders to **51 Wabash Ave., CHICAGO, ILL.**

ROSES.

Ready for immediate shipment; extra strong and clean from 2 1-2 in. pots.

CLOTHILDE SOUPERT,
THE NEW PINK SOUPERT,
PERLES,
LA FRANCE,
BRIDES,
SUNSET,
BRIDESMAID,

\$4.00 PER 100.

Write for prices on large lots.

BEDDING ROSES in 20 varieties, our selection, per 100, \$3.00

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BEAUTIES, MERMETS, CUSINS, TESTOUTS, NIPHETOS, PERLES, BRIDES, BRIDESMAIDS, METEOR, HOSTE, LA FRANCE, WOOTTON, WATTEVILLES, AUG. VICTORIA. Rooted Cuttings. Cash with order. Owing to number booked, they will be executed in rotation to assure prompt delivery. Order early
Address for quotations, **VILLA LORRAINE ROSERIES, MADISON, NEW JERSEY.**

Home of the Queen of Roses. BELLE SIEBRECHT. READY APRIL 1st.

Send in your orders early; the demand is great. The finest pink ROSE ever introduced.

2-inch pots.	\$12.00 per 100
2-inch pots.	55.00 per 500
2-inch pots.	100.00 per 1000
3-inch pots.	18.00 per 100

NOTICE:—All orders filled in strict rotation.

SIEBRECHT & WADLEY,
Rose Hill Nurseries, NEW ROCHELLE, N. Y.

ROSES.

BRIDES, METEORS, MERMETS and LA FRANCE, \$3.50 per 100; \$30.00 per 1000. WOOTTONS, \$4 a 100; \$35 a 1000. 3 in. \$6 a 100. AMERICAN BEAUTIES, \$5.00 per 100; \$40.00 per 1000. Strong, healthy stock. 25 at 100, and 250 at 1000 rates. Cash with order.

R. F. TESSON,
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A FINE LOT OF

**Meteors,
American Beauties
and Perles,**

Now ready, out of 3 or 4-inch pots. Write for sample and prices to

GEO. A. KUHL, Pekin, Ill.

ROSES.

PERLE and M. NIEL plants, from 2½-inch pots, \$4.00 per 100.
PERLE, SUNSET, MERMET, VICTORIA, MME. TESTOUT, ALBANY, M. NIEL, PINK and WHITE LA FRANCE, strong, healthy plants, from 3-inch pots, \$7.00 per 100. I will send sample to parties wishing to buy.
MOON VINE, \$3.00 per 100. Terms cash with order.

JOSEPH HEINL, Jacksonville, Ill.

Rogers Park Floral Co. GOOD FIRST CLASS STOCK.

	In 2½-inch pots	per 100	per 1000
Am. Beauties.....	5	00	\$40 00
C. Testout.....	4	00	35 00
Kaiserin Victoria.....	4	00	35 00
La France.....	4	00	35 00
Belle Siebrecht.....	4	00	35 00
Bridesmaids	3	00	25 00
Brides.....	3	00	25 00
Perles.....	4	00	35 00
Meteors.....	3	00	25 00
Meteors, 4-inch pots.....	5	00	40 00

Orders for less than 100 not accepted. Ready for shipment now.

Send Orders to **41 Wabash Ave., Chicago.**
Mention American Florist.

ROSES. NOW READY.

First-Class Stock, 2½-inch pots.

	Per 100	Per 1000
PERLES.....	\$3.50	\$30.00
METEORS.....	3.00	25.00
BRIDES.....	3.00	25.00
BRIDESMAIDS.....	3.00	25.00

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88 Wabash Ave., CHICAGO.

THE DIRECTORY

For 1896

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PRICE \$2.00.

American Florist Co.,

DRAWER 164

CHICAGO.

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Subscriptions accepted only from those
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Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
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No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
wares pertaining to those lines ONLY. Please to
remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure
insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

Society of American Florists.

The Society of American Florists offers the following first prizes in cash to be competed for at the exhibition to be given by the Cleveland Florist Club, during the time of the S. A. F. convention in Cleveland, August 18, 19 and 20.

For the largest and best collection of plants in bloom, variety and quality to be specially considered, \$50.00.

For collection of decorative plants occupying a space of four hundred square feet, quality and arrangement to be specially considered, \$50.00.

For pair of vases of flowers arranged without artificial support, \$20.00.

For floral arrangement other than funeral design, \$30.00.

Also for collection of new and rare plants a certificate of merit. The judges will be men of acknowledged qualifications, and florists throughout the country are cordially invited to compete, as upon the support extended by the trade on this occasion will depend largely the Society's efforts in this line in the future.

WM. J. STEWART, Secretary.

THE DIRECTORY and reference book for 1896 contains 335 pages, an increase of 64 pages over that of 1894.

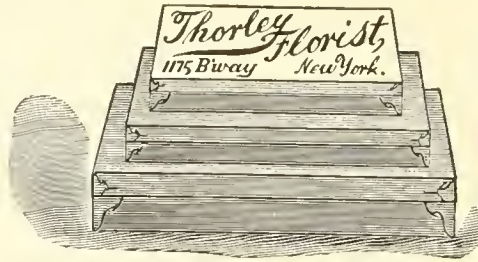
W. A. B.—Please send name and address and state character of original inquiry. We receive many inquiries at this office and cannot tell to which one your additional data refers.

THE Sunset Seed and Plant Co., of San Francisco, Cal., has discontinued cut flower growing and that branch of the business will be continued by Mr. Sidney Clack, at Menlo Park, Cal., to whom the Co. has rented a number of its greenhouses. Mr. Clack will continue to sell plants for account of the Co. as before.

Worcester, Mass.

The exceedingly hot spell we experienced, together with the absence of any rain, has had a very bad effect on all outside stuff and blasted all our hopes of having any outdoor blooms to help us out on Memorial Day. Deutzia, valley, myosotis, white lilac, etc., will have blossomed and faded before the 30th, and consequently flowers are going to be very short; all stuff inside is also being pushed too much, and we have a glut of stock now, and no possible way to hold the crop. Trade has kept fairly steady, and good flowers are very plentiful. Violets are played out, but peas and myosotis more than fill the gap. Carnations are still of good quality, but of course this extreme heat won't take long to reduce the size. Roses are also holding well. Prices are a notch lower, but are fairly steady.

A. H. L.



The boxes as they appear when set up for use.

We make them in a sufficient number of sizes, including for violets, to meet all necessary requirements.

THE NATIONAL FOLDING BOX & PAPER CO.,

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Strictly Commission Business.

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LISTS FREE. BUFFALO, N. Y.

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Folding Flower Boxes are the best and most convenient ever put upon the market. They are made from board, manufactured especially for these goods, and made so as to resist moisture, thereby keeping the flowers fresh, and the box holding its shape.

THE NEW YORK CUT FLOWER CO.,

119 and 121 W. 23rd St., and
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IS NOW

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CUT FLOWERS IN THE WORLD.

Handling flowers of all kinds in quantity we are in a position to fill shipping orders promptly. We shall give careful attention to this branch of the business, and solicit your patronage.

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FLORISTS'
SUPPLIES,
FLORISTS'
VASES.

METS,
BRIDES,
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.

84 Hawley Street,

BOSTON, MASS.

HORTICULTURAL AUCTIONEERS.

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NO. 2 BEACON STREET,

Near Tremont St.,

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Asparagus Plumosus Nanus.

Cut Strings, 8 to 10 feet long,

50 CENTS.

W. H. ELLIOTT, Brighton, Mass.

SAMUEL S. PENNOCK, Wholesale Florist

1612 & 1614 BARKER STREET,

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WHOLESALE FLORIST
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WHOLESALE CUT FLOWERS.
 SEEDS, BULBS AND ALL
 FLORISTS' SUPPLIES.

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Wholesale Cut Flowers
 and FLORISTS' SUPPLIES,
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Winter & Glover,
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We are now prepared to furnish Florists' Wire Designs and a full line of Florists' Supplies.

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 HEADQUARTERS FOR AMERICAN BEAUTIES.

Reinberg Bros.
WHOLESALE CUT FLOWERS,
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 Telephone Main 4937, CHICAGO.
 Our Roses best them all, in quality.
 Headquarters for fine American Beauties.

W. E. LYNCH,
WHOLESALE CUT FLOWERS,
 Wire Designs a Specialty,
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ROGERS PARK FLORAL CO.,
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CUT FLOWERS,
 41 WABASH AVENUE,
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We are prepared to fill your orders with first-class flowers. Give us a trial order.

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 Consignments solicited. Prompt attention to all orders.

FLOWERS at RETAIL.
 We are prepared to fill orders—received by mail or telegram—for Cut Flowers, etc., to be delivered in Cincinnati and suburbs or nearby towns.

15% Customary discount to the trade.

HUNTSMAN & CO.,
 615 Race Street, CINCINNATI, O.

Wholesale Markets.

Cut Flowers.

NEW YORK, May 12.	
Roses, Beauty.....	1.00@15.00
" all other varieties.....	.50@ 4.00
Carnations, ordinary.....	.50@ .75
" fancy.....	1.00@ 2.00
Sweet peas.....	1.00@ 2.50
Valley.....	1.00@ 3.00
Harrisell.....	2.00@ 4.00
Mignonette.....	.50@ 2.00
Adiantum.....	.75 @ 1.00
Asparagus.....	.50.00
Smilax.....	12.00@15.00
BOSTON, May 12.	
Roses, Gontier, Niphotos.....	1.00@ 2.00
" Perle, Mermel.....	2.00@ 3.00
" Bride, Bridesmaid, Meteor.....	2.00@ 4.00
" Beauty.....	5.00@20.00
Carnations.....	1.00@ 1.50
" fancy.....	1.50@ 2.50
Valley.....	1.00@ 2.00
Longiflorum, erubescens.....	4.00@ 6.00
Mignonette.....	2.00@ 3.00
Adiantum.....	1.00
Smilax.....	15.00@ 20.00
Asparagus.....	.50.00
PHILADELPHIA, May 12.	
Roses, Beauties long.....	1.00@15.00
" medium.....	4.00@ 6.00
" short.....	4.00@ 6.00
" Runners.....	8.00@16.00
" Brides, Bridesmaid, La France etc.....	4.00@ 6.00
" Kaiserin.....	3.00@ 4.00
" small teas.....	1.00@ 3.00
Carnations, fancy.....	1.50@ 2.00
" first quality.....	1.00@ 1.50
" seconds.....	.50@ 1.00
Sweet peas.....	1.00@ 1.50
Harrisell.....	6.00@ 8.00
Smilax.....	15.00@20.00
Asparagus.....	25.00@50.00
Adiantum.....	1.50@ 2.00
CHICAGO, May 15.	
Roses, Beauties.....	8.00@20.00
" seconds.....	4.00@ 6.00
" Brides, Bridesmaid.....	2.00@ 4.00
" Meteors.....	2.00@ 4.00
" Perle, Gontier.....	1.00@ 2.00
" Testout.....	4.50@ 6.00
Carnations.....	.75@ 1.00
" fancy.....	1.00@ 1.50
Antirrhinum.....	4.00
Harrisell.....	4.00
Longiflorum.....	5.00
Valley, outdoor.....	.50@ 1.50
Valley, cold storage.....	3.00
Tulips, daffodils.....	1.00@ 2.00
Narcissus, single.....	1.00@ 1.50
Cape jasmine.....	1.00@ 2.00
Mignonette.....	1.00@ 2.00
Sweet peas.....	.25@ .50
Irises.....	2.00@ 3.00
Paeonies.....	4.00
Gladiolus.....	5.00@ 8.00
Smilax.....	15.00@18.00
Adiantum.....	1.00
ST. LOUIS, May 13.	
Roses, Beauties, long.....	6.00@10.00
" short.....	2.00@ 5.00
" select stock.....	2.00@ 3.00
" general stock.....	1.00
Carnations, fancy.....	1.00
" ordinary.....	.50
Valley.....	1.00@ 2.00
Harrisell.....	2.00@ 6.00
Callas.....	3.00@ 6.00
Tulips.....	2.00
Sweet peas.....	.25
Paeonies.....	2.00@ 4.00
Smilax.....	10.00@15.00
Ferns, dagger.....	1.50

GEORGE A. SUTHERLAND,
 Successor to PECK & SUTHERLAND,
 Successors to WM. J. STEWART,
Cut Flowers and Florists' Supplies
WHOLESALE.
 67 Bromfield St., BOSTON, MASS.
 New England Agent for the GREAT ANTIPEST.

PLEASE MENTION THE AMERICAN FLORIST EVERY TIME YOU WRITE AN ADVERTISER.

John I. Raynor,
 49 WEST 28th STREET,
NEW YORK.

SPECIAL EXTRA STOCK OF
AM. BEAUTY, METEOR,
BRIDESMAID, BRIDE.

DISBUDDED CARNATIONS.
FANCY GRADE.

Finest MIGNONETTE in the world.

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Cut Flowers,
WHOLESALE,
 43 W. 28th Street, NEW YORK.

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WHOLESALE FLORIST,
 39 West 28th Street, NEW YORK.

Roses shipped to all points. Price list on application.

Edward C. Horan,
 34 W. 29th Street, NEW YORK,
WHOLESALE • FLORIST.

Careful Shipping to all parts of the country.
 Price list on application.

Purdy & Blauvelt,
WHOLESALE DEALERS IN
CUT FLOWERS,
 57 W. 30th St., NEW YORK.

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FINE ROSES
WHOLESALE,
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WHOLESALE, COMMISSION,
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 Cut Flower Exchange, NEW YORK.

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 (Formerly with THEO. ROEHRS.)
Commission Dealer in Cut Flowers,
WHOLESALE,
 53 West 30th St., NEW YORK CITY.

MILLANG & WINES,
WHOLESALE FLORISTS,
 501 Sixth Avenue,
 CORNER 30TH ST., NEW YORK.
 Consignments Solicited.

The Seed Trade.

AMERICAN SEED TRADE ASSOCIATION.

S. E. BRIGGS, Pres.; T. W. WOOD, 1st Vice-Pres.; ALEX. RODGERS, 2nd Vice-Pres.; A. L. DON, 114 Chambers St., New York, Sec'y and Treas. The fourteenth annual meeting will be held at Niagara Falls, N. Y., June 9 to 11, 1896.

CHICAGO.—J. C. Vaughan has returned from the east.

THE assets of the Sioux City Nursery and Seed Co. are reported to be \$180,000, liabilities \$90,000. E. S. Weatherly is receiver.

INDIANAPOLIS, IND.—Preferences to the extent of \$25,000 were filed by the Huntington Seed Company, the Capital National Bank being the principal creditor. The company's assets will aggregate 40,000, with less than \$30,000 of liabilities. The embarrassment is only temporary, and the business will be continued by the firm.

Government Seed Packets.

The following letter has been issued by the United States Department of Agriculture:

Washington, D. C., May 2, 1896.

This Department having learned that requests have been made upon commercial seedsmen for seed put up in papers similar to those used by the Government and printed in simulation thereof, it appears proper to notify all seedsmen, so far as may be possible, that the Department of Agriculture can not permit the Government seed contractors or any seedsmen to sell seed in packets bearing the name of the Department of Agriculture or any words which might cause the receiver of the package to believe that it was a part of the Government seed distribution.

This Department is taking great pains to have all the seed supplied it for this distribution carefully tested, and it is obviously improper for anyone to represent as Government seed any seed not thus inspected, tested, and paid for by this Department.

No seed can be distributed free of postage through the mails except that delivered upon the order of Members of Congress by the Department of Agriculture or sent out direct from this Department. The act of March 3, 1875, confines the franking of seeds by Members of Congress to those seeds which they receive for distribution from the Department of Agriculture.

CHAS. W. DABNEY, JR., Acting Secretary.

Germinating Power of Cupid Sweet Pea

Regarding the germinating powers of Cupid sweet pea, which is now attracting considerable comment, the writer agrees with W. Atlee Burpee that seed sown in the fall of the above named variety, and also seed sown in the spring months, have germinated much better than those sown in the winter or early spring months. This I know from actual experience on seed farms in California, the home of Cupid. I think that all sowings of Cupid during the past few weeks will prove the above assertion.

METEOR.

Utica, N. Y.

The demand for cut flowers is only moderate. The trade generally seem to prefer trilliums and other outdoor wild flowers, to anything of the florists' creation. This week will see about the last of the Harrisii's, tulips, hyacinths and other inside bulbous stuff, a fact which none seem to regret. The demand for this stock with the exception of the lilies yearly grows less. The extremely dry weather which prevails has greatly interfered with early planting. What carnations and violets are out would be better off in the frames. Most of the out door stuff which usually cuts quite a figure at Decoration Day will be past and roses, carnations and indoor stock will be in demand. Plant sales are backward with the exception of hydrangeas, clematis and other heeled in hardy stuff.

Roman Hyacinths.

Our cable advices say, and we say, this is the time to buy. We can save you money if you will send us your order **at once.**

VAUGHAN'S SEED STORE,

CHICAGO: P. O. Box 688.

New York: 14 Barclay Street.

JOBBER OF FLORISTS' BULBS FOR 20 YEARS.

Are you Sowing

PRIMULAS?

We are offering fresh seed of PRIMULA FIMBRIATA (Chinese Primrose) from the choicest English strains that cannot be excelled.

Alba Rubra, Alba Magnifica, Rubra Violacea, Chiswick Red, Meteor, Village Maid and Finest Mixed. PER HALF TRADE PACKAGE 50c; FULL TRADE PACKAGE \$1.

TUBEROSE EXCELSIOR PEARL, Select, 1st size bulbs, \$1.25 per 100; \$10.00 per 1000.

GLADIOLUS, FINE MIXED, \$1.00 per 100; \$8.50 per 1000.

CALADIUM ESCULENTUM, according to size, \$5.00, \$8.00, \$10.00, \$12.00 per 100.

WM. ELLIOTT & SONS, NEW YORK.

An Unusual Chance to BUY LARGE PALMS.

Our palm house is crowded, and to make room we offer the following, very cheap for cash.

2 LATANIA BORBONICA, height from tub 8 feet, 20-inch tubs, 10 leaves on each.

1 LATANIA BORBONICA, height 8 feet, 10 very large leaves spreading 12 feet; 20 inch tub.

1 PHOENIX RECLINATA, height 9 feet, 22 leaves, spreading 16 feet; 24-inch tub.

2 PHOENIX RECLINATA, height 7 feet, 7 leaves; 12-inch pots.

1 KENTIA FORSTERIANA, height 6½ feet, 8 leaves, spreading 9 feet; 12-inch pot.

1 KENTIA FORSTERIANA, height 7 feet, 7 leaves; 14 inch pot.

1 PANDANUS UTILIS, height 7 feet, spreading 8 feet; 12-inch pot.

Also several more slightly smaller.

FOR PARTICULARS APPLY TO

H. F. A. LANGE,

WORCESTER, MASS.

When writing mention the AMERICAN FLORIST.

Peter Crowe has purchased the Bonfield place at Little Falls. It is understood that he will conduct this as a branch of his already large establishment.

Louis Guillaume the carnationist of East Onandago, N. Y. was in town to-day. He has taken the Hayden place, consisting of six houses, at Syracuse which he will run in connection with his wholesale business.

There is being an effort made to revive the old Florists' Club. Several have expressed themselves as being strongly in favor of giving a show in the fall. Success to them.

T. J. B.

PALM Seed. NOW ON HAND FRESH CROPS.

	per 100	per 1000
Arcea Intescens	\$1.25	\$10.00
Cocos Weddeliana	1.50	12.50

The import of this variety did not turn out very satisfactory; above prices are for selected seeds.

Latania borbonica..... 35 2.50
 Livistona rotundifolia..... 2.75 25.00
 All Chamaedrops, Phoenix and many others now in stock. A full list on application.

J. L. SCHILLER, Rutherford, N. J.

PRIMROSE SEED.

This season's crop of our Chinese Primrose seed now ready for delivery. Our Primroses are greatly improved, and new varieties offered for the first time. We put up packets specially for florists. Single and double, fifteen best selling sorts.

400 SEEDS, PRICE \$1.00.

For separate vars. send for our Primrose Seed circular HENRY S. RUPP & SONS, Shiremanstown, Pa.

SWEET POTATO PLANTS CHEAP.

Fine YELLOW NANSEMOND Sweet Potato plants, \$2.00 per 1000. Special prices on large quantities. Plants guaranteed first class. Order quick as this adv. will not appear again. If to be shipped C. O. D. send one-third cash.

HECKENKAMP & BLAESING, Quincy, Ill.

CELERY PLANTS, \$2 per 1000. Smaller plants for transplanting, \$1.

NO CHECKS PLEASE.

Index of How to Grow Celery, free.

PETER J. SCHUUR, Kalamazoo, Mich.

Mammoth Verbenas.

New, large-flowered, very fine quality.

Per Ounce, \$1.50.

CHOICE FLOWER SEEDS

For Florists.

Price List free on application.

HERRMANN'S SEED STORE,

413 E. 34TH STREET,

Near Long Island Ferry, NEW YORK.

L. HARRISII BULBS

FOR JULY DELIVERY

AT SPECIAL PRICES

IF ORDERED NOW.

SEND FOR PRICES.

Import Price List **DUTCH BULBS**

now ready. Free.

DAN'L B. LONG,

Jobbing Florist & Importer of Forcing Bulbs,

BUFFALO, N. Y.

WATSON'S ENGLISH MUSHROOM SPAWN

THE  BRAND.



Unsurpassed in quality, always fresh, well-spawned and reliable, can be thoroughly relied on to produce a fine crop of the best mushrooms. Its quick and sure growth and ease of cultivation, and its great and rich bottom make for fine quality spores. Guaranteed the best in the market. A variety of mushrooms to grow in. A trial order solicited. Send for new prices, per pound, by mail, postpaid, with a guarantee for 100% return of money, if the spores do not grow. \$1.00 per 100 lbs. Wholesale and Retail. Largest quantities, \$1.00 per 100 lbs. in advance. Catalogue sent with all orders on application. *Reserve the name of the grower.*

G. C. WATSON, Wholesale Sandeman, 43 North 10th Street, Phila., Pa.

C. H. JOOSTEN, Importer,

193 Greenwich Street, NEW YORK.

SPECIALTIES:

Bulbs, Azalea Indica, Palms, Roses,

and all kinds of Nursery and

Fruit Tree Stocks.

Catalogues on application.

SEEDS

... FOR THE ...

Garden and Farm

Vegetable and Flower Seeds. All the

newest and best varieties—quality un-

surpassed. Illustrated Catalogue FREE.

WEEBER & DON, Seed Merchants

and Growers,

114 Chambers St., New York City.

Plant Auction.

SALES EVERY TUESDAY AND FRIDAY

THROUGHOUT THE SEASON.

A. & F. RÖLKER, Auctioneers.

106 Liberty Street, NEW YORK.

PANSIES.

HERR'S COLD FRAME PANSIES, the strain that

has made them famous. Per 100, \$1.75 and \$2;

per 1000, \$12.50 and \$15.

COLEUS.

ROOTED CUTTINGS of red and yellow; also

fine assortment of fancy, at 75c per 100; \$6.00

per 1000.

ALBERT M. HERR,

L. B. 194. LANCASTER, PA.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist



VAUGHAN'S INTERNATIONAL MIXTURE.

This mixture contains besides all the above

named varieties, a number of other colors,

selected from the best straining of American, French,

English and German growers and we know it will

give entire satisfaction. Pkt. (350 seeds) 50c; 5 for \$2.

Primula Obconica, trade pkt. 25c.

ASPARAGUS Plumosus Nanus, new seed just re-

ceived, \$1.50 per 100; \$3.60 per 250; \$12 per 1000.

For other Flower Seeds see our "Book for Florists." Sent free to florists.

NEW YORK:

14 Barclay St.

CHICAGO:

84-86 Randolph St.

When writing mention the American Florist.

NORTHROP, BRASLAN, GOODWIN CO.

Being **GROWERS** we are in a position to supply **Seeds of First-Class Quality** and

to make **especially low prices.** A trial will convince those who

have not yet found this out.

NORTHROP, BRASLAN, GOODWIN CO.

20 to 28 Hennepin Ave., MINNEAPOLIS, MINN.

55, 57 & 59 N. Jefferson St., CHICAGO.

When writing mention the American Florist.

VAN ZANTEN BROTHERS,

Hillegom, Holland.

Extra quality of **HIGH GRADE FORCING BULBS AT LOW PRICES.** We now book

orders for **Azalea Indica, Palms, etc.** The largest collection of sundry bulbs and

plants.

APPLY FOR WHOLESALE CATALOGUE.

P. VOS & CO., Sassenheim, Holland,

GROWERS OF

Hyacinths, Tulips, Crocuses, Narcissus, etc.

WE ARE ABLE TO QUOTE THE LOWEST PRICES FOR WHOLESALE DEALERS.

Mention American Florist

The Directory

For 1896

IS NOW READY.

Price \$2.00.

AMERICAN FLORIST CO.,

CHICAGO.

CHATER'S

PRIZE HOLLYHOCKS

Our seed of this have been saved from the finest

and largest double flowers only and will produce

flowers extremely double and in the best, bright-

est and most distinct colors. Sow now.

Double Pure White, per oz. \$1.00; 1/4 oz. 30c.

Lemon Yellow, Pink, Purple Red, Deep Rose,

Salmon, Crimson, each per oz. \$1.10; 1/4 oz.

50c; trade pkt. 25c.

Chater's Hollyhocks, best double mixed, per oz.

\$1.50; 1/4 oz. 50c; trade pkt. 25c.

Double Hollyhocks, a new good mixture, per oz.

\$1.00; 1/4 oz. 30c.

CINERARIA Vaughan's International Mixture, trade

pkt. (1000 seeds) 50c; 3 pkts. \$1.25.

Cineraria Hybrida, large flowering mixed, trade

pkt. 25c.

Cineraria Hybrida, large flowering dwarf, mixed,

trade pkt. 25c.

CALCEOLARIA Hybrida, choicest mixture, flowers

beautifully spotted and marbled, brilliant

colors, trade pkt. 50c.

CHINESE PRIMROSES.

SINGLE LARGE-FLOWERING FRINGED VARIETIES.

1000 seeds 250 seeds

White, Alba. \$1.50 \$0.50

Red, Rubra. 1.50 .50

Chiswick Red, flowers of a brilliant

crimson scarlet. 1.75 .50

Kermesina Splendens, a very deep

rich red. 1.75 .50

Alba Magnifica, flowers large, snow-

white, exquisite form. 50

New Blue Primula. 50

Fern-Leaved Mixed. 40

Fringed Primula, many colors mixed 1.25 .25

LARGE-FLOWERING DOUBLE PRIMULA.

50 seeds

Double White. \$0.50

Double Striped. 50

Double Magenta Red. 50

Double Red. 50

Double Mixed. 50

Our Double Primulas bring a large percentage

of double flowers.

WE ARE HEADQUARTERS ON

BULBS FOR FORCING,

FLOWER SEEDS FOR FLORISTS

ENGLISH MUSHROOM SPAWN.

Special prices on application.

JOHN GARDINER & CO., Seedsmen,

631 Market St., Philadelphia, Pa.

St. Paul.

The intense heat of the past week has brought out blooms in abundance; quality is poorer and prices are lower. Vegetation has come forward with a rush, and instead of being late the season is now considered early. Everybody is busy in the plant business; inquiries are numerous, sales are good and shipping orders are coming in freely. Already a dearth of cut flowers for Decoration Day is apparent. Out of door stock will all be gone by that time, while roses and carnations will be used up inside if the hot wave is not soon broken. But very little bedding out has been done, though the warm weather would warrant the florist in planting out the most tender plants.

The remaining stock of L. G. Venzke, who recently assigned, will be sold to the highest bidder.

Harry Bunyard was a recent caller; also C. C. Pollworth of Milwaukee.

FELIX.

Hackensack, N. J.

Lehnig & Winnefeld, the carnation growers, are now sending into New York their pot carnations. They make a fine show, as they are a mass of flowers. They use for this purpose Pres. Garfield exclusively. They planted out the last week in April 15,000 plants of Eldorado. Wm. Scott and Uncle John. They look very well. They will build a fine large house this summer to grow their Day-break in, as they have been very successful with this variety, and had great demand for it.

This firm grows very fine cannas, notably a new seedling, Yellow Queen. It grows to the height of three feet and bears a large cluster of strikingly bright yellow flowers. Mr. Winnefeld says cannas do not pay now; they are sold at auction at such low prices that it is impossible to make even a small profit.

S. M. T.

Ridgewood, N. J.

Herbert E. Forbes has grown Lizzie McGowan with much success this winter. He is still picking very good flowers and plenty of them too. The demand for cut flowers is on the increase in this place. Mr. Forbes uses the La France in his local trade and finds it a profitable rose. He also grows Bride and Bridesmaid. He has had to give up growing violets on account of the disease.

H. W. Hales is growing some nice bedding stuff, his trade is local. S. M. T.

Westfield, Mass.

This town will soon have a flower store that promises to compare most favorably with any of the kind to be found in the larger cities through the state. Mr. Geo. Mieliez is remodeling and equipping his store on a modern up-to-date scale. Mr. Mieliez has added a fine conservatory in the rear, immediately adjoining his store. A handsome ice box will soon be placed in position, to replace the old one.

HOMO.

THE only reference list of cannas is to be found in our new directory and reference book. The list is arranged alphabetically and gives name, date of introduction, name of introducer and a brief description.

THE SECOND INTERNATIONAL horticultural exhibition at Dresden takes place May 2-10.

The American Florist Company's · D · I · R · E · C · T · O · R · Y ·



— OF —
FLORISTS,
NURSERYMEN
AND SEEDSMEN

— OF THE —

UNITED STATES AND CANADA,

— AND —

REFERENCE BOOK,

FOR 1896,

IS NOW READY

CONTENTS.

The names and addresses of all the Florists, Nurserymen and Seedsmen in the United States and Canada, arranged alphabetically in States and Provinces, the exact branch of the business each is engaged in being indicated by the following

. . . . KEY

- F** Florists who do a general local trade, having greenhouses and retailing the product of same.
- G** Florists who grow cut flowers or plants for the wholesale market and who do not sell at retail. Almost always within a short distance of a large city.
- R** Retail store florists who have no glass of their own. Nearly always in the large cities.
- D** Wholesale commission dealers in cut flowers.
- N** Nurserymen.
- X** Those who are both Nurserymen and Florists.
- S** Seedsmen.
- Z** Those who are both Seedsmen and Florists.
- A** Those who combine all the branches, viz.: Florists, Nurserymen and Seedsmen.

. . . . ALSO

- A list of Trade Organizations, both National and Local, with names and addresses of principal officers, time and place of meetings and date of organization.
- Statistics regarding Floriculture, the Nursery Industry and Seed Growing from the last U. S. Census report.
- A list of firms in the trade that issue catalogues, with a key indicating the prominence of each branch of the trade in same.
- A list of leading Cemeteries in which attention is paid to Ornamental Horticulture.
- A list of leading Park Superintendents and of the Botanical Gardens of the United States.
- Seasonable Hints for the year about the practical work of the Florist, written by Wm. Scott, giving instructions not only when to do certain work, but how to do it most effectively and economically.
- A complete alphabetical list of Roses in commerce in America, brought up to date and of incalculable value for reference.
- Similar lists of Chrysanthemums, Carnations and Cannas.
- Historical sketches to date of the Society of American Florists, American Carnation Society, National Chrysanthemum Society of America, Florists' Hail Association, American Seed Trade Association and American Association of Nurserymen.
- A list of Leading Horticultural Societies.
- Full and accurate information about Express and Postage rates.



PRICE OF NEW SEEDLING CHRYSANTHEMUM

Wm. Simpson

CUT IN HALF.

From May 15th, \$17.50 per 100; \$100 per 1000

Fine Strong Plants, 2½-inch pots.

IT WILL PAY TO GROW FOR CUT FLOWERS.

Wholesaled in Philadelphia, Oct., 1895, at \$5.00 per dozen blooms.

JOSEPH HEAGOCK, Wyncote, Pa.

AND FOR SALE BY

H. F. MICHELL.
HENRY A. DREER.
ROBT. CRAIG.
GEO. C. WATSON.
A. BLANC.

E. G. HILL.
NATHAN SMITH & SON.
THE COTTAGE GARDENS
J. C. VAUGHAN.
JOHN N. MAY.

Extra Early CHRYSANTHEMUMS

White. Per 100
LADY FITZWIGRAM. \$10.00
MME. F. BERGMANN. 3.00

Yellow.
MARION HENDERSON. 3.00
YELLOW QUEEN. 4.00

Pink.
MARQUIS DE MONTMORT. 8.00
OCTOBER BEAUTY. 3.00

CONSIDER YOUR WANTS NOW.

Plant early in June if you wish to be first on the market.
If you require succession, we shall be pleased to submit a list of

SECOND EARLY,
MID-SEASON
AND LATE SORTS.

ALSO ALL THE BEST OF THE 1896 NOVELTIES.

NATHAN SMITH & SON,
Adrian, Mich.

THE COTTAGE GARDENS,

C. W. WARD, Mgr. QUEENS, L. I., N. Y.

WHOLESALE SPECIALTIES:

Carnations, Chrysanthemums,
Cannas, Geraniums.

Bulbous Begonias.

LAING'S STRAIN. In separate colors.
Lilium Longiflorum, Tuberoses, Spiræas,
etc. Now on hand.

Ask for prices.

HULSEBOSCH BROS., Englewood, N. J.

Fresh Norway Spruce Seeds,

AT 50 CTS. PER POUND.

When making order send Money Order with it.
CH. KOEHLER,

Oxford Church P. O., Philadelphia, Pa.

PLEASE mention the AMERICAN FLORIST
every time you write to an advertiser.

PINK IVORY,

(MISS AGNES L. DALSKOV.)

The invincible New Chrysanthemum, Strong, healthy plants from
2-inch pots, \$2 00 per dozen; \$10 00 per hundred.

SPECIAL PRICES ON LARGER QUANTITIES.

M. HANSEN, New Durham, N. J.

EXTRA. CHEAP.

Pink Ivory Chrysanthemum

MISS AGNES LOUISE DALSKOV.

The best early pink Chrysanthemum ever introduced. Fine young plants, \$5.00 per 100; \$10.00 per 1000.
AMPELOPSIS VEITCHII, from 3 inch pots, \$8.00 per 100.

Buy now as this offer don't last long.

WM. HILLEBRECHT, Union Hill, N. J.

TOBACCO STEMS.

Pennsylvania, Michigan. Write for them to

Special prices, Ohio,
Illinois, Kentucky,
H. A. STOOHOFF, 331 Madison Ave.,
NEW YORK CITY.

NOVELTIES FOR THE TRADE.

New Asparagus Sprenger 30c. New
Spiraea Anthony Waterer 25c. New Climbing
Meteor Rose 30c. New Golden Rambler. Yellow
Souper. New Crimson Rambler \$5 per 100. New
Justicia. New Double Rudbeckia. New Cannas.
Carex Japonica. Bougainvillea. Gladioli. Dbl. New
Life Geranium. Geranium Agnes Kelway. best pink.
Send for Catalogue of Novelties and Trade Bulbs
at low prices. A. BLANC & CO.,
Japanese Jardinieres at Philadelphia, Pa.
very low prices. List free.

When writing mention the AMERICAN FLORIST

Tomato Plants

Stone, Paragon and Royal Red.
SWEET POTATOES, CELERY THINNINGS for trans-
planting and CABBAGE PLANTS.

20 cts. per hundred; \$1.00 per thousand. Larger
quantities at lower rates. Cash with order please.

R. VINCENT, JR. & SON,
WHITE MARSH P. O., Baltimore Co., MD.
Mention American Florist

Ferns! CUT Ferns!

Choicest Daggers, \$1.00 per 1000.

10,000 lots or more, 90c. per 1000.

CURREY & CO., Nashville, Tenn.

Mention this paper.

NEW SINGLE PARISIAN VIOLET PRINCESS OF
WALES—A grand acquisition. Large round
flowers of deep violet, stems 8 to 10 inches long;
a great cropper and fine grower. Strong
plants, 2½-in. pots, \$1.50 per doz.; \$10 per 100.

DWARF WHITE DAHLIA CAMELLIAFLORA ALBA—
A most valuable plant for cut flowers or bed-
ding. Strong plants, 4-in. pots, \$2.00 per doz.;
2½-in. pots, \$1.50 per doz.; \$10.00 per 100.

FICUS ELASTICA and BELGICA—Splendid young
plants, 4-in. pots, 4 to 6 leaves, \$3.00 per dozen;
\$25.00 per 100.

ISMENE CALATHINA—Nothing better for cut flow-
ers. Strong flowering bulbs, \$2.00 per dozen;
\$15.00 per 100.

GIANT DAISY MME. GRELLERT—4-inch pots, \$1.50
per dozen. 2-inch pots, 75c per dozen.

CENTAUREA MARGARET (Seed)—A grand novelty
for summer and fall cut flowers. Pure white
and Sultan yellow, 25c each.

ADDRESS JOHN G. HEINL & SON,
TERRE HAUTE, IND.

WEST ISLIP GREENHOUSES. Marie Louise Violets

Rooted Runners, \$4 00 per 1000.

Cash with orders.

E. B. SUTTON, Jr.
P. O. Address BABYLON, LONG ISLAND N. Y.

PLEASE mention the AMERICAN FLORIST
every time you write to an advertiser.

Atlanta, Ga.

I had the pleasure a few days ago of looking through some of the leading establishments of Atlanta. I was utterly surprised at the strides the business has taken since my last visit to Atlanta some eight years ago. Then there were a few so called florists doing business in a half-hearted way, principally in bedding plants and young nursery stock. There was no pretense at cut flower growing, and no stores in the city for the sale of flowers. What a difference there is to-day; Atlanta ranks with any city of equal size in the North in the way of modern florist's establishments, and her three or four cut flower stores are up to the times in every respect.

The West View Floral company has the largest range of glass, and claim to be the largest growers of plants and cut flowers in the South. They conduct a first-class retail store on Peachtree St., besides wholesaling extensively both cut flowers and plants in the South and Southwest. Although the weather had been so excessively hot and dry for that time of the year, everything was looking first-class, and was an eye-opener for a Northern man. What surprised me most was to see the carnations and roses under glass doing so well and looking exceptionally fine for so late in the season. There was not a particle of shading on the glass and Mr. Burford, their foreman, told me they never put any on. It was also interesting to note their mode of watering. Although it was midday and the sun blazing hot one man was kept busy all day with a hose throwing water on the rose and carnation beds.

At the Brookwood greenhouse in North Atlanta everything was in apple-pie order and as clean as a pin. Most of the houses are large modern iron frame structures with all the modern appliances and conveniences. Mr. Seals, late of Nashville, is the manager of this model establishment. The roses at this place were looking exceedingly fine, with no mildew to speak of. The Brides and Bridesmaids that were sent into their store were larger and of finer texture than anything of the kind I have seen in the North at this season of year. They are well pleased with Kaiserin and Morgan—of the latter rose they told me they cut last winter blossoms equal in size to the Beauty and stems almost as long.

There was one house already replanted with roses, also one house of carnations just planted, as they do not put them outdoors. Mr. Grimshaw has charge of their retail store on Decatur St. The day I called he had a large order to decorate the Capital City Club house. It was done exclusively with dogwood blossoms, while the tables were filled with select blooms of carnations and roses.

At the C. A. Dahl houses everything was looking promising with a good crop of roses on for Decoration Day, which is one month earlier than north of Mason and Dixon's line. They do not grow carnations, but are making preparations now to build more houses for that purpose.

George Hinman has just added a fine large house, and is getting things shaped for a larger trade next fall and winter. He has been very successful with the Wootton and says there is no red rose that compares with it in the South.

The above places have all been established in the past few years. I did not find time to visit the older places, but I learned they have all been improved and enlarged since my previous visit.

L. F. DARNELL.

IVORY! THE GREAT SUCCESS!

NOTHING IS IN MORE UNIVERSAL DEMAND BY FLORISTS THAN A GOOD, PRODUCTIVE WHITE CARNATION.

In IVORY you will have it. Try it and you will have a money maker. It produces as many blooms as Wm. Scott, is as perfect in form as any Carnation yet produced, held by a calyx that never bursts and carried on a long, wiry stem. What more do you want?

Fine plants from soil, \$10 per 100; \$75 per 1000. Stock ready now.

Also fine stock of *all the other leading varieties*. SEND FOR PRICE LIST.

GEO. HANCOCK & SON, Grand Haven, Mich.

HERR'S CARNATIONS.

LIZZIE MCGOWAN, WM SCOTT, AURORA, IAGO, FRED DORNER and SWEETBRIER, all at \$1.25 per 100, or \$10.00 per 1000.
STUART, BOUTON D'OR, and PEACHBLOW, \$2.00 per 100.
STORM KING, ALASKA, and ROSE QUEEN, at \$3.00 per 100, or \$25.00 per 1000.
ANNIE LONSDALE, at \$10.00 per 100; and THOMAS CARTLEDGE, one of the most profitable carnations that grows, at \$1.50 per 100, or \$12.50 per 1000.

These are last of the season prices, and absolutely cash with the order, or C. O. D.

L. B. 496. ALBERT M. HERR, LANCASTER, PA.

CARNATIONS

Do not fail to order some of the BRIDESMAID CARNATION. The best pink to date. Plants from flats, \$5.00 per 100; \$40.00 per 1000.

We also have to offer the following varieties from flats Sold out of all others. NO RUST.

	Per 100	Per 1000
METEOR.....	\$5.00	\$40.00
STORM KING.....	5.00	40.00
ROSE QUEEN.....	4.00	30.00
UNCLE JOHN.....	3.00	25.00
E. A. WOOD.....	3.00	25.00
DAYBREAK.....	3.00	25.00
WM. SCOTT.....	2.50	20.00

NEW CHRYSANTHEMUMS.

MRS. W. C. FGAN, }
TIPPECANOE, } 50c each; \$5 per doz.; \$35 per 100.
AMARANTH, }

New Begonia Lillian Harrington.

A cross between Alba and Rubra. Florets and sprays very large and of a deep rose color. The bronze green foliage and large panicles of flowers make it very attractive and desirable. 2½-inch pots, \$10.00 per 100.

Dwarf Scarlet Salvia Kobold.

Dwarf growth, only half the height of Splendens. Its early and free continuous blooming with its dwarf habit makes it one of the best bedding plants, and so much more attractive than the old tall growing Salvia Splendens now in use. 2-inch pots, \$4.00 per 100.

Pandanus Veitchii.

We still have a few plants from 8-inch pots, very fine and good color, at \$3.00 each.

Swainsona Galegifolia Alba.

A most desirable white cut flower, very free. 2-inch pots, at \$4.00 per 100.

Antirrhinum Majus Alba.

The best of the whites for winter forcing, as well as fine bedding plants. Fine stock, 2-inch pots, \$4.00 per 100.

F. DORNER & SONS CO.

LA FAYETTE, IND.

Mention American Florist

Daisies.

LARGE DOUBLE WHITE, Large Clumps in bloom, \$2.00 per 100.

PANSIES ALL SOLD.

E. B. JENNINGS, L. B. 254, Southport, Conn.

Grower of the finest strains of Pansies.

THE DIRECTORY

FOR 1896

IS NOW READY.

PRICE \$2.00.

AMERICAN FLORIST CO.

The Crack Carnations:



SCOTT, ALBERTINI,
DAYBREAK, MCGOWAN.

Selected Cuttings, well rooted in sand and soil, delivery February 15th and later, \$2.00 per 100; \$15.00 per 1000.

Send your order at once, with cash, to get these figures. . . .

ALEX. McBRIDE,

ALPLAUS, N. Y.

Mention American Florist

CARNATIONS

Orders solicited for ROOTED CUTTINGS.

KOHINOOR takes the lead.

Other Novelties of the Standard sorts at standard prices. All healthy and strong.

C. J. PENNOCK,

The Pines. KENNETT SQUARE, Chester Co., PA.

Mention American Florist

CARNATIONS.

ROOTED CUTTINGS,

In large quantities, see list of varieties in FLORIST, March 21st. Send for price list.

H. WEBER & SONS, Oakland, Md.

Mention American Florist.

DO YOU WANT CARNATIONS?

If so, why not GROW the BEST?

50,000 ROOTED CUTTINGS, including Daybreak, Wm. Scott, Goldfinch, Lizzie Gilbert, Emily Pierson, Lizzie McGowan, Tidal Wave, S. Spray, Hulse's White, &c. Can do you justice in quality and price. Write me before you buy. Address CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

CARNATIONS.

Rooted Cuttings in immense quantity, strong and well-rooted and particularly free from rust.

Daybreak, Wm. Scott, Thos. Cartledge, Tidal Wave \$2.00 per 100; \$15.00 per 1000.
Lizzie McGowan, Silver Spray, Portia, \$1.50 per 100; \$12.00 per 1000.

Lady Campbell Violets in any quantity, \$1.00 per 100; \$8.00 per 1000.

JOS. RENARD, Unionville, Chesler Co., Pa.

Della Fox and Annie H. Lonsdale

ALL SOLD.

MYERS & SAMTMAN, Chestnut Hill, Phila.

GENERAL COLLECTION OF PLANTS.

	Per 100
Amaryllis (Empress of India), 4 and 5-inch.....	\$25 00
Artemisia, silvery foliage.....	3 00
Achyranthes, four kinds.....	2 00
Ageratum, White and Blue.....	2 00
Alocasia.....	4 00
Asparagus tenuissimus, 4-inch.....	8 00
Asters, assorted.....	2 00
Cuphea, 3 kinds, the best.....	2 00
Alyssum.....	3 00
Canna, Common, mixed.....	1 00
Coleus, all kinds.....	\$25.00 per 1000
Calla.....	\$4 00, \$6.00, 20 00
Cactus, in variety.....	5 00
Century Plants.....	\$10 to 15 00
Cyperus alternifolius.....	4 00
Croton.....	\$3 to 10 00
Cyclamen, 3 and 4 inch pots.....	8 00
Dracena indivisa.....	\$10 to 20 00
Echeveria.....	3 00
Epiphyllum, Lobster Cactus.....	8 00
Eulalia zebrina, Zebra Grass.....	5 00
Euphorbia splendens.....	5 00
Fuchsias, general collection.....	2 00
Gladiolus.....	1 50
Geraniums, all kinds.....	\$3 to 4 00

	Per 100
Hydrangea, 3 and 4-inch.....	\$5 to \$8 00
Helianthus.....	4 00
Ivy, all kinds.....	\$3 to 10 00
Jasminum, 3 kinds.....	5 00
Manettia, 2 and 3-inch pots.....	3 00
Alternanthera.....	2 50
Pandanus utilis, 2-inch pots.....	8 00
Swainsona.....	5 00
Poinsettia, 5-inch pots, 20c each.....	15 00
Primula obconica, 3-inch pots.....	\$3 to 6 00
Bouvardia.....	5 00
Ivy Leaved Geranium.....	3 00
Rose Geranium.....	3 00
Lonicera Halleana, 2-inch.....	2 00
Bromelia Lily.....	6 00
Sword Ferns.....	5 00
Parrot's Feather.....	\$3 to 5 00

	Per 100
Polyanthus.....	\$3 00
ROSES, Monthly and Tea.....	3 00
“ Hybrid Perpetual.....	2 50
“ Crimson Rambler.....	10 00
Vincas.....	\$4 to 8 00
Chrysanthemums, 25 varieties.....	\$2 to 3 00
Carnations.....	\$3 to 6 00
Begonias, best assortment.....	\$2 to 5 00
Ferns. We grow Ferns for the market, and have several houses devoted to their growth.....	\$6 to 10 00
Palms and Decorative Plants. Our Palms are in fine condition, and we make better inducements than ever before.	
Bedding Stock of all kinds.	
Send for Our Complete Catalogue	

TREE AND PLANT LABELS. MAILING BOXES.

WILLIAMS & SONS CO.,

BATAVIA, Kane Co., ILL.

FORGET-ME-NOT

BLUE PERFECTION.

As a cut flower, read what two of the oldest and best known houses of Philadelphia say:

MR. ALBERT KNAPPER:—This season we have worked up quite a little trade on Myosotis, and consider it a good cut flower for the retail florist, which I think will grow more in favor.

SAMUEL S. PENNOCK.

MR. ALBERT KNAPPER:—We take great pleasure in recommending a good article, and can say that your Myosotis is a fine, large, strong flower of a grand color, and the best we have seen for a great while.

CHARLES FOX.

A GOOD INVESTMENT.

A GOOD SELLER.

NO DISEASE.

A GOOD KEEPER.

EASILY HANDED.

ORDER NOW.

Has averaged at the wholesale market this winter from \$1.50 to \$2.00 per 100 flowers. Treatment similar to Violet Marie Louise or Carnations, from 40 to 50 degrees.

PLANTS, 2-in. pots, ready now, per 100, \$5.00.

ROOTED CUTTINGS, per 100, \$3; per 1000, \$25.

Cash with order please, or C. O. D.

ALBERT KNAPPER, Frankford, Phila., Pa.

SURPLUS STOCK.

2-inch Pot Plants.

7000 ALTERNANTHERA AUREA, yellow.

3000 " P. MAJOR, red.

2000 GERANIUMS, 3-inch, mixed.

\$3.00 per 100; \$25.00 per 1000.

CHAS. A. JUENGEL,

1833-41 S. 14th St., ST. LOUIS, MO.

CLEMATIS.

Doz. 100

Two years, all large flowering, choice

named, leading kinds.....\$2.50 \$30 00

Strong, heavy plants.....35c each, 4 00 30 00

H. P. Roses, 2 years, 4-inch pots.....1.50 10 00

Clematis Jackmanni, nice young plants

for potting or planting up for fall sales 1.00 8 00

Daisies dbl. Eng. Snowcrest, Snowflake .50 1 00

F. A. BALLER, Bloomington, Ill.

VINCA MAJOR VARIEGATA,

in 4 and 4½-inch pots.

FIRST SIZE.....\$10.00 per 100

SECOND SIZE.....8 00 per 100

In 2-inch pots.....2.00 per 100

C. LENGENFELDER,

Berleau and Western Avenue, CHICAGO.

Mention American Florist.

ROSES. ROSES. ROSES.

All the best New and Standard varieties for Winter forcing, or Summer blooming in the open ground, in Teas, H. Teas, Monthlies, Hybrid Perpetuals and Climbers. A grand stock of Mrs. P. Morgan now ready. Also

All the New and Choice **CHRYSANTHEMUMS** in fine condition; and in

CARNATIONS an extra fine lot ready for immediate planting, in fine, strong, transplanted stock of nearly all the leading varieties.

WRITE FOR SPECIAL PRICES ON LARGE LOTS TO

JOHN N. MAY, Summit, New Jersey.



PROFITABLE BLOOMS.

CUSHMAN'S GLADIOLUS BULBS

planted about **June 1st** throw fine spikes in **September** when flowers are scarce.

TRY A FEW.

Very fine mixed, \$1.00 per 100; \$8.00 per 1000. Cash please.

CUSHMAN GLADIOLUS CO., Euclid, O.

PALMS.

150,000 of all the leading varieties.

FERNS.

50,000 of leading varieties.

Address **GEORGE WITTBOLD,**

1708 N. Halsted St., CHICAGO.

MAY OFFER.

Per 100

Alternantheras, red and yellow, 2½ in. pots.....\$2 00

Geraniums, assorted, 2½-inch pots.....3 00

" " 3-inch pots.....3.75

" " 4-inch pots.....5.00

Smilax, 2-inch pots.....1.50

Pansies, cold frame, small \$1.00; larger.....1.50

Verbenas, from seed.....2.00

Cash with order, please.

JOS. H. CUNNINGHAM, Delaware, O.

BASKET PLANTS.

A choice assortment from 2½-inch pots, suitable for filling vases and baskets, price \$2.75 per 100. Further particulars on application.

WISCONSIN FLOWER EXCHANGE,

Box 87. MILWAUKEE, WIS.

We devote our whole attention to

DAHLIAS

and not only have the **LARGEST** and **BEST** collection in America, but guarantee our stock true to name. We are now filling orders for trial grounds. Every **SHEDSMAN** and **FLORIST** interested in **DAHLIAS** should send for our new descriptive Trade List.

W. P. PEACOCK, Atco, N. J.

CANNAS.

QUEEN CHARLOTTE, and other popular varieties. Quantities and prices on application.

ADDRESS ALL INQUIRIES TO

EDWIN LONSDALE, Florist,

WYNDMOOR, Chestnut Hill, Station H, PHILA., PA.

E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

Please mention the American Florist every time you write any of the advertisers on this page.

Posts.

Referring to the enquiry of R. H. in regard to wood posts, I would like to ask why he does not use iron posts set in stone, the latter being buried below frost. Buildings are frequently constructed here in that way and there is no heaving by frost if the block of stone is deep enough, and there are no wooden posts to decay in a few years.

Bath, Me.

F. C. CURTIS.

The only posts made of oak which I know to last are the post oak. White oak is not the same. Chestnut posts will outlast all of them with me. The yellow pine full of pitch, which we call here fat pine, lasts better than any other. Some say, if posts are turned upside down they will be more lasting. I do not know, have not had sufficient experience. The party who told me about turning posts the reverse from the way they grew, said that moisture followed the grain and would ruin every post soon.

Anniston, Ala.

F. J. ULBRICHT.

Tightening Leaky Tank.

As to tightening leaky tank, all I have seen so far, including article on page 1090, does not fit my case.

My tank is nearly as wide on top as on the bottom, round, hoops are driven down as far as this will do any good, and an extra stave put in. If a round tank like mine was wider at the bottom than on top the thing would be very easy. Will some one tell me how to doctor my tank?

Anniston, Ala.

F. J. ULBRICHT.

Stopping Leak in a Boiler.

During zero weather last January my boiler sprung a leak over the whole crown sheet at nearly every flue and destruction was threatened. A friend advised me to put a few pounds of rice in the boiler. I did so, the leak stopped, and the boiler did good service until a favorable time for repairs came. This suggestion may be of value to others. Always keep a few pounds of rice on hand.

Royer's Ford, Pa.

R. E. NACE.

LITTLE FALLS, N. Y.—The *Times* of this city, under date of May 4, states that Walter Bonfield, the missing florist, has been seen, and that he has wandered away to avoid meeting his creditors. According to his story he owes only \$1,200. He states his intention was to go away, earn sufficient to meet his obligations and then return and settle up.

SALEM, MASS.—A voluntary petition in insolvency has been filed by John H. Punchard, the florist.

The Oaks Greenhouse Co., Jackson, Mich.

Per 100
Begonias in variety, 2½-inch pot plants..... \$2.50
Chrysanthemums, 2½-inch pot plants..... 2.50
R. Cuttings, standard vars..... 1.00
Marguerite Daisy, R. Cuttings..... 2.50
2½-inch plants..... .50
Hechoma Hederaea, R. Cuttings..... .50
Verbena, best strain..... .75
Vine Variegata, R. Cuttings..... 1.00
Cuphea, Pilea, German Ivy, etc..... 1.00
If to be sent by mail add 10c per 100. Cash with order.
When writing mention the American Florist.

THE DIRECTORY

For 1896.

IS NOW READY.

Price \$2.00.

AMERICAN FLORIST CO.

THE WATER GARDEN.

Now is the time to plants all Hardy Aquatic and sub-Aquatic plants. Our collection embraces the newest, choicest and best in cultivation, suitable for pond, lake or fountain basin. Bamboos, Giant Reeds, Grasses and Hardy Perennials; also a grand collection of newly imported Japanese Mountain Peonies, magnificent for all styles of planting in Parks and Gardens.

Dreer's Garden Calendar for 1896, describing everything, mailed free to those interested.

HENRY A. DREER, 714 Chestnut Street, Philadelphia.

30,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Extra fine plants, in bud and bloom, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, \$1 per 100; \$8 per 1000.

NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.

We are the Largest Growers of Verbenas in the country.

Our plants cannot be surpassed.

J. L. DILLON, Bloomsburg, Pa.

THE WM. H. MOON CO.

MORRISVILLE, Bucks Co., PA.

Offer the following to the Trade:

ORNAMENTAL GRASSES in variety.

5,000 ROSA WICHURAIANA.

HONEYUCKLES—20,000, Evergreen, Halliana

and Goldea.

CLEMATIS PANICULATA—10,000, one and two

years old.

CALIFORNIA PRIVET—200,000, one and two

years old.

FLOWERING SHRUBS—250,000, all sizes and

varieties.

DECIDUOUS TREES—500,000, for streets and

lawns.

EVERGREENS—500,000, large, medium and small.

Correspondence solicited in reference to anything

needed in the way of nursery stock.

A DAISY that SELLS

25 Rooted Cuttings of my NEW YELLOW MARGUERITE for \$2.00 by mail.

Nice 2-inch pot plants, ready for shift, 10 for \$1.00.

It is a pleasing shade of yellow, very floriferous, with a double row of petals, and stem 8 to 10 inches long. Sample blooms mailed on receipt of 10 cts.

Strong 2½-inch FISHERS for summer bloom, \$2.00 per 100.

BRIDES and BRIDESMAIDS, 2½-in. \$1 per 100.

All A1 stock. Cash with order.

F. BURKI, Bellevue, Pa.

LAST CALL!

COLEUS. COLEUS.

Per 100 Per 100
Golden Queen and Crimson Verschaffelti and assorted young stock, 2-in. pots..... \$15.00
Heliotrope, 2½-inch pots..... 2.00
Mt. of Snow Geranium, 2½-inch pots..... 2.50
Vine variegata, 2½-inch pots..... 2.50

ROOTED CUTTINGS.

Golden Queen and Crimson Verschaffelti..... 6.00 \$.75
Coleus in variety..... 5.00 .60
Alternanthera p. major and aurea nana..... 6.00 .75
Heliotrope..... 8.00 1.00
Cash with the order.

J. E. FELTHOUSEN Florist, Schenectady, N. Y.



STRAWBERRY-RASPBERRY, LOGAN BERRY (Raspberry-Blackberry)

We are headquarters for them. Also Golden Mayberry and Sacaline, home-grown plants. Bottom prices for gilt edge stock.

THE LOVETT CO., Little Silver, N. J.

LETTERHEADS, ENVELOPES

and all other office supplies for nurserymen, seedsmen and florists (except wooden labels and seed bags). We do the work as well as we do our catalogues. Prices will surprise you.

J. HORACE MCFARLAND CO.

Mount Pleasant Printery.

Harrisburg, Pa.

PALM SEEDS

On hand in splendid condition.

	Per 100	Per 1000	Per 5000
Areca lutescens	\$1.50	\$10.00	\$47.50
Areca rubra	1.50	10.00	47.50
Geonoma gracilis	1.75	12.00	55.00
Geonoma Schottiana	1.75	12.50	60.00

Non-germinating seeds will be replaced.

Our Palm Growers' Guide free on application.

SCHWAKE SEED CO. (Inc.)

404 East 34th St.,

NEW YORK.

AZALEAS, The finest commercial varieties.

PALMS, Large, healthy stock, well grown.

ARAUCARIAS, From Cuttings only.

BAY TREES, Perfect shape, in all sizes.

SANDER, BRUGES, BELGIUM.

Agent: A. DIMMOCK,

106 & 108 Liberty Street, NEW YORK.

SEND FOR SPECIAL OFFER.

Mention American Florist.

SPECIALTIES

IN BEST VARIETIES.

ROSES, from 3-inch pots.

CARNATIONS, for fall delivery.

CHRYSANTEMUMS.

SMILAX.

VIOLETS.

Prices low. Send for list.

WOOD BROTHERS, FISHKILL, N. Y.

THE FAMOUS NEWPORT CANNA, "Mrs. Fairman Rogers."

Has all good points. Two Silver Medals and three First-Class Certificates awarded.

Plants, \$6.00 per dozen. Stock limited.

J. S. COWLES, Newport, R. I.

BAY TREES.

JUST RECEIVED,

ARAUCARIA, FICUS, PALMS, ETC.

Ask for prices.

L. C. BOBBINK, RUTHERFORD, N. J.

Branch of the Horticultural Co., Boskoop, Holland.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

HERE'S A CHANCE — TO — MAKE MONEY

Decoration Day trade increases
in volume each year.

We can supply you with
the kind of goods your cus-
tomers want. First-class
stock; specially selected;
profitable to handle; sells
at sight.

An Invoice of **MOSS WREATHS**
just received.

FRESH IMMORTELLS,
in best quality.

CAPE FLOWERS,
extra size and grade.

A complete line of
ARTIFICIAL FLOWERS.

New Baskets for
Commencement
have arrived.

Buy fresh 1896 stock and
you will get substan-
tial results.

Florists' Supplies

are our one Specialty, and
our constant effort is to
supply only the best.

At our prices you can make
money on these goods.

ORDER NOW.

H. BAYERSDORFER & CO.,
56 N. 4th St.,
PHILADELPHIA, PA.

WHOLESALE ONLY.

BOSTON FLORIST LETTER CO.,

13 Green St., BOSTON, MASS.
Office, 84 Hawley St.

Manufacture the Best Letters in the Market.

Sizes 1½-inch and 2-inch, \$2.00 per 100. Patent
fastener with each letter.

With orders for 500 letters we give away a nicely
stained and varnished box. See cut in next
week's American Florist.

Our letter is handled by all the wholesalers in Boston.
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ton; N. F. McCarthy & Co., 84 Hawley Street, Boston;
The Henry Phillips Seed and Implement Co., Toledo,
O.; Walter A. Potter & Co., Providence, R. I.; J. C.
Vaughan, 26 Barclay St., New York.
J. A. Summers, Toronto, Ont., Agent for Canada.

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Importers and Manufacturers of

FLORISTS' SUPPLIES

25 N. FOURTH STREET,

PHILADELPHIA, PA.

Special price for your wants on application.



WHITE DOVES FOR FLORISTS.

Largest and finest stock in the United
States. Write for prices to

S. J. RUSSELL,
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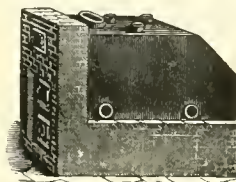
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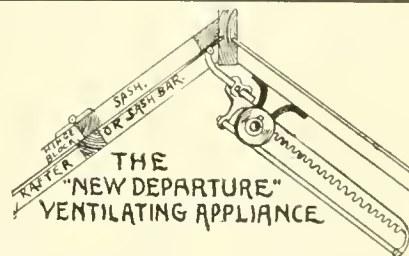
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Betscher Bros. have some very fine carnations. Daybreak, Scott, Uncle John, Garfield and Goldfinch are considered the profitable ones. Stock is in excellent condition; thus far not a trace of rust has been noticed.

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Among other things, an improved Midsummer and fiery scarlet Mirande type are beautiful. Mr. C. Betscher devotes a good portion of time in hybridizing carnations, gladioli, berries, etc., and has been very successful. They expect to give elaborate displays of gladioli in their territory the coming season. A. Y.

THE GENERAL HORTICULTURAL exposition of 1897, held at Hamburg, will be open from May to September. There is an extensive prize list, and the exhibition is expected to be a very notable one.

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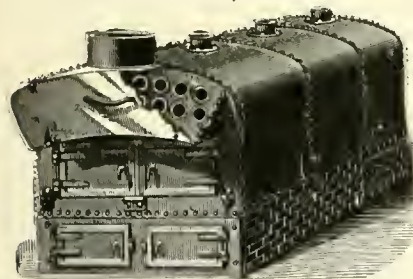
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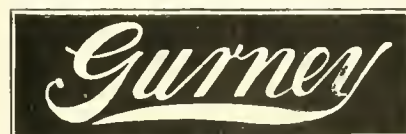
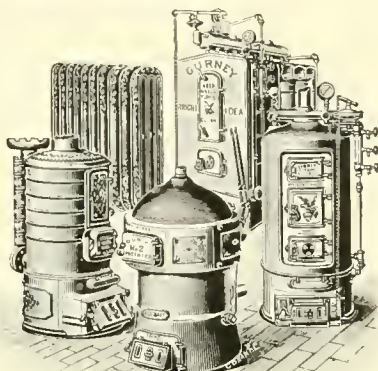


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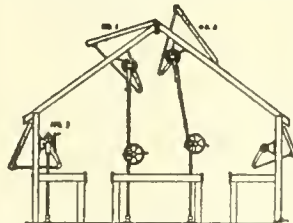
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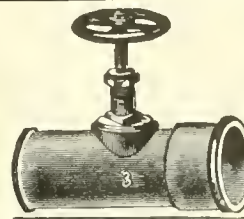
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CARRICK, PA.—W. F. Lauch has admitted a partner to his business, and the firm name is now Lauch & Oesterle.

COLUMBIA CITY, IND.—Wm. Kelsey succeeds to the business of the Riverside greenhouses formerly conducted by Kelsey & Butchart.

STOCKTON, CAL.—A floral carnival was held here April 21 and 22. A great many symbolic floral designs were exhibited, a floral drill and other exercises given, and it is expected another year will see a still finer show.

AKRON, O.—W. A. Helfer, coal dealer, is building two greenhouses for commercial purposes. Also Ed. Schwartzferger, formerly employed by Bolanz Bros., as rose grower for the past five years, has started in the business for himself. He will have three houses.

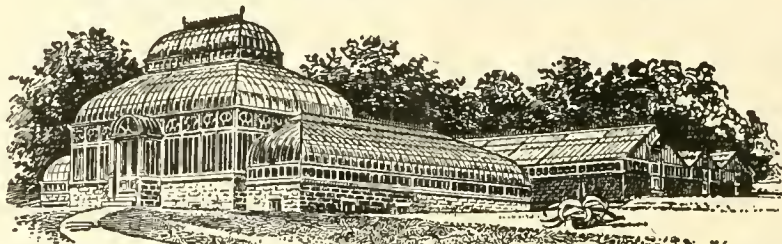
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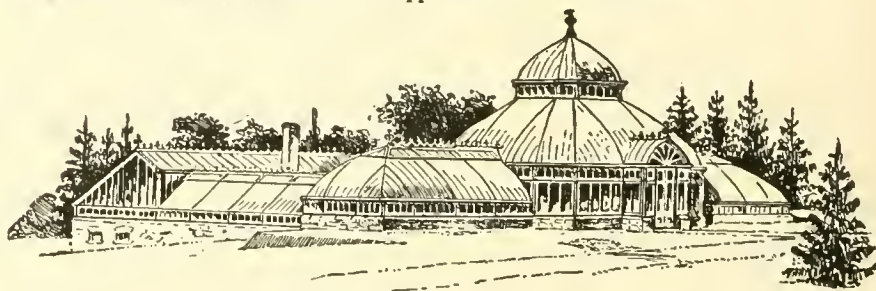
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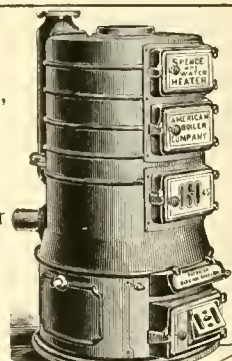
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FOR GREENHOUSES.

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THE AMERICAN FLORIST



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Vol. XI.

CHICAGO AND NEW YORK, MAY 23, 1896.

No. 416

THE AMERICAN FLORIST

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Entered as Second-Class Mail Matter.

PUBLISHED EVERY SATURDAY BY

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in the trade.

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AMERICAN FLORIST COMPANY,

P. O. Drawer 164, CHICAGO.

Eastern Office: 67 Bromfield St., Boston.

This paper is a member of the Associated Trade
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SOCIETY OF AMERICAN FLORISTS.

WM. SCOTT, Buffalo, president; ADAM GRAHAM
Cleveland, O., vice-president; W. J. STEWART, Bos-
ton, secretary; H. B. BEATTY, Oil City, Pa., treasurer.
The twelfth annual meeting will be held at Cleve-
land, O., August, 1896.

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WEST BROOKFIELD, MASS.—The Horti-
cultural Society held a successful exhibi-
tion of potted plants on Thursday and
Friday, May 7 and 8.

HYDE PARK, MASS.—At a meeting of
the Horticultural Society, on May 5, it
was voted not to hold exhibitions this
year. A committee was appointed to ar-
range for the disposal of the money and
property of the Society, and report at a
future meeting.

NEW BEDFORD, MASS.—The annual ban-
quet of the Gardeners' & Florists' Club
was held in Odd Fellows Building on
Monday evening, May 11. Mr. J. H.
Woodford, chairman of the committee of
arrangements of the Massachusetts Hor-
ticultural Society, was a guest.



Carnation Notes.

It is quite interesting to make a study
of the results and experiences of the past
season, to look over the advantages and
disadvantages we had to contend with.
The former were very few and the latter
many. There are always points that
will come to remembrance in a backward
glance, that may be turned to advantage
for the future. Points where we have
failed, and should strive to rectify the
errors made, and again where we have
been successful. It is well to look for the
cause of failure and success. One season
is not like the other, what may at one
time be beneficial may at another time be
harmful. So only if we learn the real
cause of either failure or success, we can
turn it to advantage in the future and
apply it to circumstances. My scope of
observation is limited to my own place,
but I find always enough to think and
study over, where improvements can be
made.

The worst thing we had to commence
with was the drouth, beginning in April
and lasting nearly all summer. All the
watering helped so far as it kept our
plants alive, growth was very slow. The
best thing we found to do was to give a
thorough watering and then follow right
up as soon as the ground would pulverize
with a thorough cultivating with the
hand cultivator, as recommended in my
last notes. In this way a good watering
will last for a long time. One striking
experience I had relating to soil retaining
the moisture: A piece of ground I intended
to use for bench soil being plowed and
manured the fall before, and again early
in spring, had kept in a moist condition
all summer, while soil two feet from the
border completely dried out. This in-
duced me to give all my grounds a fall
plowing, and so far the indications for
success are very favorable. My soil was
never in a better condition at any time
before, and I feel myself amply repaid for
the fall plowing, and shall not omit it
any more. Our early planted plants at
the present time are better and larger
than they were last year in July.

All of our young stock used for our-
selves last year was from cuttings struck
in March, with the exception of a few
batches of January struck plants we had
on hand yet at planting time. They were
strong and healthy, but the March plants
outgrew them in a short time, and I may
say with the dry weather we had, and
the watering we had to resort to, they

commenced to grow, while the others
stood still. The dry arid atmosphere had
a more retarding effect on the older,
stronger but harder plants, than the
younger and softer. And this year at
this early time the indications point the
same way.

As I have said before at other times, a
carnation plant, from the time the cutting
is rooted, should have an uninterrupted
growth for the whole time of its exist-
ence if we intend to make use of it, and
expect to cut good flowers. But to turn
back again to last year, that long drouth
caused a very severe check on our plants,
and I may say they did not recover from
it until midwinter. It is in our power,
and we may go to the expense of water-
ing, keep the ground moist, and wonder
why our plants do not make any better
growth. We can control the soil, apply
water, but to create the humid atmosphere
so beneficial to vegetation is not in our
reach. The dry air is too severe a draught
on the plants, evaporation through the
leaves too strong a pressure on the roots,
the sap will thicken the formation of new
cells, new growth is impaired, and a sus-
tainable root action made impossible.
Heat and dryness will set a plant at rest
as well as cold. With water we can tide
a plant over a drouth, but often there is
more harm done than good, and how?
With excessive watering we may during
a drouth excite plants into growth, but
beware the results if you are unable to
keep it up; they will receive another check,
rendering them weaker than before.

For these reasons I recommend a thor-
ough cultivating to the depth of about
two inches, a pulverizing of the soil so it
will act as a mulch to retain the moisture;
and this should especially be done after
every rain as soon as the soil is in a con-
dition to do it. If the dryness should be-
come too severe give a thorough water-
ing, and then resort again to cultivating,
after a rain, to make the best and longest
use of that water applied. So in time of
dry hot weather, to keep the plants alive
or sustain them in a slow growth, is far
better than to cause them to make a rush
and run the risk of seeing them fail back
again.

My experience of the past year tells me
that in time of drouth the most efficient
help is cultivating the soil as mentioned,
and resort to watering only in the ex-
treme necessity, and the prudent cultiva-
tor will not wait till the ground is getting
too dry, but have it always in a condition
to meet a dry spell. FRED. DORNER.

Why Carnations go to Sleep.

BY WM. MURPHY.

[Read before the Cincinnati Florists' Club.]

I will give you eighteen reasons why
carnations go to sleep, and then endeavor
to tell you how to grow and handle them
so as to avoid it.

Too much commercial fertilizer used;

allowing the bloom to develop too far before cutting; spraying over the bloom in the houses; want of air—growing in too close an atmosphere; growing in too high a temperature; growing too dry at the roots; gas escaping from leaky flues; great changes in temperature; cultivating too deep in benches; planting too close; planting too deep; cutting the flowers too green; fumigating too strong and often; allowing to wilt before bunching; keeping in damp cellar or ice box before packing; keeping them in rooms lighted by gas or crowded by people; packing hot water in the boxes to keep from freezing; rough handling.

How to grow the carnations so they will not be sleepy: Take good strong cuttings the first of January, break off by pulling down the stem from flowering shoots; drop in water to keep from wilting until trimmed for the cutting bench. Prepare the cutting bench by putting first a layer of gravel or cinders and then four inches of river sand pounded solid and level. Water until it drips through, and the bed is ready for the cuttings. Put the rows 2 inches apart, then settle after pressing and watering again. Have the sides of the bench open underneath the propagating bench with plenty of valves on heating pipes to regulate temperature; keep not over 60° in day and 45° to 50° at night. Don't give too much air the first week or two, for the young cuttings will wilt. But after this time give plenty of air and keep the sand on the wet side, until they begin to root. Then slack off on water, as soon as rooted box in flats, and keep growing and harden off for planting outside.

Begin the preparation of the ground in the fall before by plowing down a good dressing of horse manure, do not harrow but let lay rough all winter to freeze. In the spring as soon as dry enough give another dressing of cow manure, this time plow and harrow and if too soon to plant, plow again at planting time. I plant from the middle of April to 1st of May. I plant my rows 2 feet and 8 inches apart and 6 to 8 inches apart in the rows. After planting follow up the rows and tramp with the feet both sides of the plants; this will keep the moisture up near the roots. Never allow the wind to dry the young plants while planting.

After the first rain or sooner if it should not rain within a week, run the horse cultivator, a very fine one, up and down each side of the rows as close as you can, without pulling out the plants, and I think a roller that would fit between the rows would be a great tool in dry weather. It would keep the ground level and a neater job could be done with the horse cultivator after it, and the soil would never dry out as bad as it does left lying loose. But never use the roller in wet weather. Top the plants as needed and keep the cultivator running at least once a week during the summer.

Commence preparing the soil for the fall before you want to use it, by covering a piece of sod ground with horse manure and plow down. Do this as late as you can in fall so that sharp freezing weather will kill a great many insects. Let it lie rough all winter, and in the spring plow in a good coat of cow manure and bone meal. Keep working over this all summer with the plow, harrow and drag, and by fall it will be ready for the benches. I use 5-inch soil on my carnation benches.

Lifting: This takes two men with sharp spades to do it right, one on each side of the row, pressing the spades together on each side of the plant. Lift

out and shake off the soil, move immediately to the houses to keep from wilting; plant 8 to 10 inches apart. Press the ground firm and level so the water will not run off to one side while watering. The first watering is the most important. Water until you are sure that the whole bench is soaked and running through the bottom; after this shade and spray your houses until the plants have recovered.

Do not keep your shade on the houses too long, for many carnations have been ruined by that. As the season advances fire heat becomes necessary and you can give more water at the roots; keep plenty of air on if you have to fire to do so. Fire, air and water will make bloom. A good day temperature is 65° to 75°, night 56° and some varieties will stand 60° providing you watch the soil that it does not become dry long at a time. Fumigate lightly once a week and keep some sulphur on the pipes, red spider don't like sulphur. If you keep up the temperature that I have given here, the plants will take lots of water.

Cut the flowers in the morning from plants that are not suffering for water. I contend that there are more sleepy flowers from this fault in growing than there are in all others put together. A plant that is in want of moisture at the root has very little sap in the stem; it may not be visible to the eye, but there is a lack of substance in that flower, compared with one that is full of sap produced by plenty of moisture at the roots, if you have your benches well drained and run high temperature day and night we are all liable to err on the dry side. Cut the flowers before fully developed and stand in water in a cool airy place 10 to 12 hours before packing for market. Do not pack ice or moss in the basket, get them in market early in the day. Give good count, don't promise any more to the commission man than you can cut, get a statement once a week from him and there is still a fair living and some money in carnation growing.



Temperature for Various Roses.

What temperature and what special culture is required by the following roses: Belle Siebrecht, Mrs. Pierpont Morgan and Princess Bonnie? W. S. H. & Co. Spokane, Wash.

For Belle Siebrecht and Mrs. Pierpont Morgan I have found 58° to be the best night temperature. Belle Siebrecht is very susceptible to black spot during the summer and fall, and consequently should receive such treatment as is calculated to hold the disease in check; in other respects it may be treated the same as Bride and Bridesmaid. Mrs. Pierpont Morgan has proved more satisfactory when grown in houses heated by steam. The flowers are spoiled very easily by water in the short days of winter; if after syringing the day turns out cold and cloudy so that the flowers remain wet for any length of time they are very liable to become spotted, and in some cases ruined. If steam is used for heating it can be turned into the house

at short notice, the proper temperature can be maintained, and the excessive moisture speedily dried up. Hot water is very much slower to act, and does not create as dry an atmosphere as steam, hence the reason for recommending the latter for this particular variety.

Have had no experience with Princess Bonnie. ROBT. SIMPSON.

Miscellaneous Seasonable Hints.

Two years ago some specimens of veranda boxes were pictured in the pages of the FLORIST from photographs taken in this city (Buffalo). There may become new subscribers whom I can give a hint to. This style of adorning the houses on residence streets has not waned with us, while flower beds on the lawn have to some extent. A good size for a veranda box is 9 inches wide at top, 8 inches at bottom, and 7 inches deep, all inside measure. The length of course is what you choose, but if longer than 6 feet should be made in sections 5 or 6 feet long, and then two men can lift them. If the boxes are large and long and there is much of it, they can be filled at the house, but it is much easier to make a good job of them at the greenhouse, where you have all the materials at hand and waste no plants. The soil should be rich, for long before fall the small amount of soil in the boxes will be a mass of roots and if in a sunny position will want a copious watering every day. If exposed to the hot afternoon sun you can use for the first row of upright plants *Dracæna indivisa*, small plants of *Phoenix canariensis* or *reclinata*, Crozy cannas of the dwarfest kinds, strong growing and free flowering geraniums, *Grevillea robusta*, the handsome and useful fern *Nephrolepis tuberosum* and *exaltata*, and a few coleus, and *acalypha*. Don't put in hydrangeas, for they soon lose their beauty and get shabby. Between this row and the droopers you can sandwich in such plants as variegated geranium, double petunias, *anthericum* (soap plant), *achyranthus*, *centaurea* and other plants of not too strong a growth. For droopers, and these are really the chief beauty of a box, there is a good variety to choose from. Never mind how common they are; it is general effect you are after. The principal plants we use for this purpose are *senecio* (German ivy), *vincas*, *lobelia*, money vine, *lophospermum*, *tropæolum*, ivy geranium, (and many of these are beautiful), plenty of double sweet alyssum, variegated *glechoma*, *Abutilon vexillarium*. Some of the sedums are also good.

If the box is in a position where it gets a little sunshine you can use to good effect many other plants. I have seen boxes look very nice, in fact handsome all summer, where there are no flowering plants used, and where the chief plants were palms, ferns and begonias. Begonia Rex, so little talked of nowadays, looks fine in a box where the sun does not spoil it. It should be needless to say that the surface of the soil between the plants should be covered with a layer of green moss. It looks better before the plants cover the surface, prevents the soil washing off and soiling the box and what is of more consequence, prevents evaporation.

It is difficult to say just what should be charged per foot for such a veranda box as I have described, but it never should be less than 75 cents per foot, and to get well paid it should be worth one dollar. If expensive palms are used it will of course be worth more than the last figure. If you are asked to have the box made for your patrons charge one dollar per running foot for the new box, including



FLAT BASKET



FOUR-LEAVED CLOVER.

RUSSIAN FLORAL ARRANGEMENTS.

painting and paint the same color as the veranda, and paint thoroughly outside and in. You will likely figure up the price of the plants you use and see that at a fair price the plants amount to quite as much or more than you are getting for the work, but you must remember you have grown a good many of the plants, the droopers especially, without much cost, and in space that was not of great value.

WM. SCOTT.

Notes from St. Petersburg,

We present herewith a number of illustrations of Russian floral arrangements, sent us from St. Petersburg by Mr. M. Gebhardt. They are all from arrangements turned out in the stores of Mr. H. F. Eilers. We also illustrate an Easter egg of lily of the valley as grown by Mr. Eilers. One picture shows the "egg" in bloom and the other makes plain the planting of the wire frame. The frame contains a thousand pips, planted March 2, and it was in bloom April 3.

The last picture shows the interior of a propagating house at Mr. Eiler's establishment. The bed shown contains carnation cuttings and it will certainly seem strange to American eyes to see carnations rooted under plates of glass in the manner indicated. This photograph was taken March 10.

Mr. Gebhardt writes that the Easter trade was very large with St. Petersburg florists. At one of Mr. Eiler's five stores the receipts reached 5,000 rubles and the smallest receipts at any of the stores was 1,000 rubles. All the other florists had large sales in proportion.

He gives us the following data as to quantity and character of the plants and flowers sold at Mr. Eilers' stores at Easter; 1,800 roses in pots, 9,000 cut roses, 50,000 lilies of the valley, 10,000 pot hyacinths, 450 azaleas, 200 syringas, 800 *Deutzia crenata*, 120 *Spiraea astilboidea*, 285 *Funkia undulata variegata*, 3,500 potted tulips, 3,000 potted *Narcissus poeticus*, 900 potted *mignonette*, 350

Primula obconica, 320 wallflowers, 615 *Lilium Harrisii*, 200 adiantums, 1,350 adiantum fronds, 290 marguerites in pots, 590 ferns in variety. Also smaller quantities of other plants such as stocks, carnations, cyclamens, cinerarias, callas, mahernias, orchids, etc. The orchids included 700 blooms of *Cælogynecristata* and 60 *odontoglossums*. There were also over 100 anthuriums, clivias, amaryllis and stove and hot house plants.

We give the above in full as being of interest on account of the very great variety offered.

We shall have some further photographs and notes from Mr. Gebhardt for an early issue.

Aquatic Plants and Water Gardening.

BY WILLIAM TRICKER.

[Read before the Philadelphia Florists' Club.]

Aquatic plants were in cultivation long before orchids; in fact we may believe they were in evidence in the first garden, for in it was found what was pleasant and a river to water the garden withal; and we cannot conceive of a river without aquatic plants. We are all familiar with the bulrushes of Egypt that played such a part in the history of the Israelites' great deliverer. Herodotus and Theophrastus wrote of the lily-rose and the Egyptian bean of the Nile as having a lovely red flower. The sacred lotus has given rise to much controversy amongst the learned. *Nymphæas* were called "lotus," "lotus *nymphæas*" and "nymphars." Much confusion exists at the present time; but when we shall have a water-lily society, every species, variety and synonym will be properly adjusted. The famous and redoubtable Frenchman Des Fontaines, however, was able to throw some light into this chaos. He stated that three distinct varieties were represented on many Egyptian monuments; there were the red lotus (*Nelumbium speciosum*), the white lotus (*Nymphaea Lotus*) and the blue lotus (*N. cœrulea*). What an incentive for a national emblem. This latter species was used in making wreathes and crowns by the florists of Alexandria, which were worn at the festivals of Antinous. These species are with us to-day, whatever their history; and their ancient lineage is one of which nineteenth century florists and gardeners may well be proud. From an early date these flowers have been migratory; being first known in Egypt (though not to be met with at present), and afterward claimed to be natives of both East and West India, China, Persia, Asiatic Russia and America. Certain it is that all varieties of *nelumbiums* or lotus can be naturalized in the United States; and there is no reason why our ponds and swampy grounds should not be crowned with these royal lilies, or that they should not be met with as frequently as in China and Japan, where they are to be seen everywhere.

The cultivation of exotic aquatics in Europe dates back to the year 1792, when the blue lotus (*Nymphaea cœrulea*) was imported from Egypt, and others followed. But these exotics required the protection of a glass structure, which at that early date was an expensive luxury, as compared with our modern structures and other facilities. Then, again, collectors had a hard time to transport such plants even when they found something that to them was priceless; no ocean greyhounds existed in those days to facilitate a speedy transfer to congenial quarters. In 1837, while Schomburgk was travel-

ing for the Royal Geographical Society of London, he not only devised the much disputed Schomburgk line, but he first found the *Victoria Regia* in the river Berbice, in British Guiana. As a botanist he was greatly elated and felt himself rewarded. In the midst of his perilous position calamity was forgotten when he beheld the wondrous scene. But in spite of his noble efforts, he failed to carry this plant or seed to his native land; and the honor of its introduction in Europe was conferred on an English traveler about ten years later.

The successful cultivation of the *Victoria* in England, where it first flowered in 1849, was an incentive to others to cultivate it, as subsequently it was grown in public and private collections in Great Britain and on the continent. Philadelphia has the proud distinction of having grown the first *Victoria Regia*; and I shall be proud to hear it said of water-lilies that Philadelphia leads the world.

With all the improvements of the past half century in greenhouse construction, heating and ventilation and our knowledge of floriculture generally, we are expected to produce better results. Advancement in this particular branch has been tardy till within the past decade, which is marked by rapid strides. Now it is the ambition of all live florists, gardeners and amateurs to possess something in the way of a water garden. Truly this is a vast field to labor in, but knowledge grows with experience. There is ample evidence that these fascinating flowers are captivating all who worship at Flora's shrine; and when we hear such questions asked by novices (for many are puzzled upon making their first acquaintance with these plants in a dormant state), "How shall I plant the banana-like root—shall I plant it horizontally or perpendicularly—which end shall I stick in the ground—should I submerge a potted tuber of *Nymphaea* or not," we conclude there is a lack of knowledge that ought not to exist.

Much has been said and written on the cultivation of aquatics, but I think the greatest good has been accomplished through the medium of our public parks and gardens and a few enthusiastic amateurs. Too much cannot be said for the thoroughness of this class of work as done in the public parks of Chicago, which has afforded object lessons to the world. Here aquatics in all their natural beauty revel as in their native habitat, assisted by natural elements and a skillful artist. Here may it be truly said that "This is an art which does mend nature—change it rather—the art itself is nature." Here, too, is an art worthy of emulation in both public and private, large and small gardens. Truly that which is worth doing at all is worth doing well.

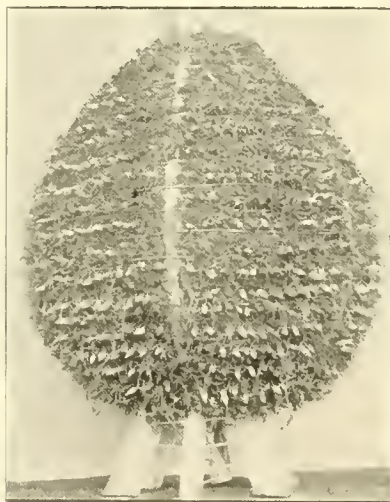
I was recently told, by a casual observer, that the *Victoria Regia* "did not amount to much." "Yes," he said, he had "seen it several times." I felt almost insulted, but simply replied that I did not think he had seen one; and when I depicted a fully developed plant, he admitted that he had not seen such a plant and wondered if that which he had seen was a *Victoria* at all. The skillful hybridizer has added much to this charming class of flowers. The blending of the colors of the tropical and hardy varieties makes it now possible to have, in the open ponds, all the soft tones of color from a pure white, a blush pink, rosy pink, yellow, lilac and crimson. The enthusiasm created in England, France, Germany and the United States has done much to popularize this class of plants, which is now

general. No public park, garden or cemetery is complete without its aquatic garden. And what a marvelous change is effected in the appearance of an unsightly swamp or marshy piece of ground by the introduction of a few aquatic plants! And how many such places are to be seen throughout our land!

The list of hardy plants is a large and varied one, and suited to all localities. Entering the limits of a well kept garden, where occasionally there is a small stream, but where often artificial means



IN BLOOM.



WHEN FIRST PLANTED.

EASTER EGG OF LILY OF THE VALLEY.

have to be resorted to, we find greater shelter and immunity from roving animals and a place where the choicest varieties can be grown while receiving care and attention when needed. Where natural conditions exist and the location is in harmony with the surroundings choose the lowest part of the ground for the water garden, digging out the soil to a moderate depth. This may be regulated by the natural conditions of the soil or the location; perhaps, in some cases, the building of a dam across a small stream may be all that is necessary, but if the soil has to be dug out, is of a clayey nature and will hold water without a cement or concrete bottom so much the better. The depth may be from one to four feet, shallow at the edge and deepening

towards the center, where ice is formed in winter 12 inches thick. Here it will be necessary to have more than 12 inches of water above the crowns of hardy *Nymphaeas*, or they will be frozen, as although classed as "hardy," they will not bear actual freezing. The form of the pond may be either circular, oval, regular or irregular (the latter being preferable), with a bay in one part, a jutting promontory in another, a shelving shore here and a steep bank covered with shrubs at another point. However small the piece of water may be, a little good taste and judicious management will have the best effect. One thing is absolutely necessary—the enclosure must hold water. Nothing is so vexatious as a leaky pond or tank and a shortage of water. A running stream is not always to be commended, although of great benefit if it can be diverted at will. A continuous stream from a spring may lower the temperature of the pond too much, for while this will not affect the hardy varieties the tropical varieties require all the benefit that can be derived from solar heat. This style of water garden may be too elaborate for the greater number who desire to grow aquatics; and recourse must be made to cemented ponds and tubs, as circumstances will permit, or to small ponds or banks built of masonry, or either bricks, stones or concrete, according to existing local conditions. The most satisfactory tanks I've made have been built of bricks and Portland cement. The depth of the tank may be 2 feet to 2½ feet inside when finished. It is advisable to let the tank or pond stand a few days with water or soil and water, as the case may be, before planting, else the young plants will suffer, if they are not killed outright. The plants may be grown in tubs or boxes, or soil may be placed in the bottom of the tank to the depth of 12 inches. In either case use good loamy soil, enriched with thoroughly rotted manure—two-thirds of loam to one of manure—and a light sprinkling of bone dust.

Water lilies and all aquatic plants are voracious feeders and require an abundance of food. Good specimen plants or flowers cannot be grown on a starvation diet. For one plant of the Zanzibar lily a tub (half a kerosene barrel) full of such soil is little enough. This would not be sufficient for a good plant of *Nelumbium*, but a *Nelumbium* can be fed with liquid or other manure, which would be of great benefit; but this treatment will not apply to tubs when submerged in the tank. *Nelumbiums* should not be grown in the same pond or tank as *Nymphaeas* unless there is ample room; and if this is not the case, then division walls should be built so as to confine the rambling roots within bounds. The tubers of *Nelumbiums* should not be planted until vegetation has fairly set in and the conditions are such as to stimulate growth at once.

Nelumbiums can readily be raised from seed, but the plants will not bloom until the second season. Hardy *Nymphaeas* may be planted in April and at any time up to the 1st of September. A good plan, in planting water lilies during summer, in water from 2 feet to 4 feet deep, is to have them established in 4-inch, 5-inch, or 6-inch pots. When turned out of the pots the ball of soil with the roots intact can be dropped in the water at the desired spot; the weight will prevent the plant from floating; and in a short time the leaves will appear on the surface and the roots of the plant will be anchored below. The tender varieties may also be planted this way, save that it is useless to plant after June.



HANDLE BASKET.
RUSSIAN FLORAL ARRANGEMENTS.

To grow a victoria satisfactorily an artificially heated pond is necessary, so that a well established plant may be secured by the 1st of July. Without this means it is not safe to plant out much before this date. Then two months would elapse before the plant attained good proportions. It might produce a flower, but summer would be over, there would be no season in which to enjoy the fruit of your labor, and the plant would be no commendation and no incentive for others to go and do likewise. For a specimen victoria plant a tank 35 feet to 40 feet in diameter is necessary and 3 feet deep. Space for soil may be made of brick work or of plank, say, 1 foot deep and 12 feet to 14 feet square; thus allowing 2 feet of water above the crown of the plant. 100 to 150 cubic feet of soil are required—the same as before mentioned for nymphæas will do—with an addition of more manure or bone meal, about 1 bushel to 150 cubic feet of soil. During spring and early summer the water temperature should be 85°, later, when the plant is matured, 80° is sufficient. The system of heating the water must depend on local conditions and resources. Both steam and hot water, in circulation and running into the tank, have been satisfactorily employed. For several weeks after planting

the space occupied will not be more than 100 to 150 square feet of surface. The best plan with which to economise and husband heat is by fixing a temporary frame with sashes over this space; and by the 1st of July, when it is safe to expose the plant, the frame and sashes may be removed and the depth of water increased. This temporary covering is intended for out-door circulation. Where a tank is built inside a glass structure, the same is not wanted. The frame would also be of great advantage where artificial heat was not used.

It is impossible to make a selection suitable for all places and different persons, while with most persons the hardy varieties are preferable because of their staying or abiding qualities. I would say that while this is quite true, it is also true that no collection is complete without the tender varieties any more than the flower garden is complete without tender plants. The soft shades of white, pink and yellow are met in the hardy varieties of nymphæas, but the deep reds (carmine and crimson) and blue are found only in the tropical ones. True the deeper reds and possibly the blue may yet be counted with the hardy varieties but a few red of recent date are lost sight of on account of their exceedingly high price.

Another point in favor of the tropical varieties is their rapid growth and free flowering quality, and that most of them are very distinct and easy to cultivate, while their price is within the limit of a small pocketbook, and fifty can be purchased for the price of one of the new hardy aristocrats. Amongst those that are within reach of all, that are of easy culture and adapted to almost all purposes, may be mentioned *Nymphaea odorata*, *N. o. gigantea* (white), *N. o. sulphurea*, *N. Marliacea chromatella* (yellow), *N. odorata rosea* (Cape Cod pond lily), *N. zanzibarensis rosea* (pink), *N. z. azurea* (blue), also the Egyptian lotus. These embrace all the leading colors and are deliciously fragrant.

Time will not permit me to give in detail a description of the newer and select tropical and hybrid varieties, but a few words must be said in favor of the night bloomers. They must not be erroneously placed in comparison with the night blooming cereus, whose flowers are of such short duration. The nymphæa flowers open after sunset and remain open until about ten o'clock the next morning. They open on three successive days or nights rather, as the day bloomers open and continue three days. They are also well adapted for cut flower purposes and are to be seen to perfection then; their sparkling brilliancy unequaled by other varieties or, in fact, by a host of other flowers. There is much more that I could say of these flowers, but before closing I must say a few words as to the immediate surroundings of the water garden. Here is the ideal spot for Japanese iris and pæonies; variegated acorus and rushes; *carex* and *cyperus* in variety, including the ancient Egyptian papyrus; giant reeds; bamboos; ornamental grass; sub-aquatic flowering plants; water forget-me-not; callas and calthas; lobelias (cardinal flowers); orchids; ferns and numbers of choice hardy perennial plants. There is also a large number of floating plants and submerged plants. Amongst the latter there are some most beautiful foliage plants, especially the cabombas, myriophyllum and last but not least, *Ouvirandra fenestralis*, the lace leaf plant of Madagascar.

Herbaceous Plant Notes.

Aquilegias or columbines are in their glory at this date, and I may say nearly everybody is familiar with at least some variety of this singular and elaborately constructed flower. Our wild scarlet and yellow columbine, *A. canadense* of the woods is worthy of cultivation among the other varieties, for it is one of the most graceful and free blooming plants, possessing a very peculiar delicacy combined with brilliancy of coloring. Sometimes we find flowers of extraordinary size, as large as those of the *A. Skinnerii*, and frequently they have their long and slender spurs tipped with yellow. The stamens and pistils are lengthened out so as to form a protruding brush in the centre of the flower. It is one of the earliest bloomers and flowers equally well in sunny or shady positions, lasting splendidly until July. Another red-flowered native, *A. formosa*, resembling the above in some respects, is often confounded with it, but can readily be distinguished by its green tipped sepals, the greater height of the plant, growing 3 to 4 feet high, and also blooming much later. It is not so abundantly distributed over the northern states as the other, but being a very pretty species and exceedingly useful, it should be planted in the garden, where it will produce more and larger flowers than

in a wild state. The Rocky Mountain columbine, *A. cerulea*, of rather dwarf growth and with lovely widely opened pale blue flowers and a pure white large cup is probably the most beautiful of the whole genus. When fully expanded the flowers measure over 3 inches across, and the spreading spurs are very long and slender. It is an early bloomer, and continues in good shape well into July, or at times even later under favorable circumstances. The pure white variety of it is surely a favorite with everybody who had occasion to set his eyes on this rare gem, at least such is our experience, for without exception it is the most admired aquilegia on the grounds. The pure yellow flowered *A. chrysantha*, with its long and needle-like spurs, will be a mass of bloom for months to come, and combined with the blue or purple varieties such as *alpina*, *glandulosa*, *olympica* or the blue and purple shades of *vulgaris*, makes a most magnificent show in the border.

The common garden columbine, *A. vulgaris*, comes in many pretty colors, blue or purple of various shades, reddish pink and copper color more or less intense, white and white tinged with red or pink, some with double flowers and some are single, not so large individually but produced in great quantity on branching, erect, stout stems. Sunny positions have been advocated for all columbines, but a long experience in our sunny country has brought out the fact that while the plant does fairly well here when exposed all day to the full sun, the flowers will last much longer when shaded part of the day, especially in midday and afternoon, and I would therefore recommend to plant under the shelter of a large open tree or on the east side of a shrubbery or a hedge. As to soil they are not particular and will thrive most anywhere, although they seem to prefer a light, open and sandy subsoil to a hard and stiff underground. Aquilegias form a mass of pretty foliage, which remains in good health until very late in fall, shading and hiding the ground completely, thereby keeping it cool and preventing the evaporation of moisture to some extent. If planted 15 to 18 inches apart in a patch in the borders or in a bed, lilies of various kinds may be permanently planted in between them, so as to have a continuation of flowers after the columbines are through blooming. *L. speciosum*, some of the tiger lilies or other late flowering sorts may be used for that purpose, *Galtonia* (*Hyacinthus*) *candicans* also looks well when planted in quantity among them, breaking the monotony of an otherwise dull and uniform patch of green, although where only small quantities are planted and the adjoining plants flower after the aquilegias, it may be just as well not to introduce additional flowering plants among them.

In spite of our dry weather the irises are doing splendidly this season, and are flowering in great profusion. Last year's plantings have sent up numerous flower stems and are far ahead of expectations. Whatever caused them to do better than usual I do not know, unless it be the constant deep covering of snow they had all winter up to the 1st of April. The largest patch of German iris we have is planted on rather dry ground, and gets no shade whatever at any time of the day, still the flowers do not get scorched, nor do they dry up very soon or fade in this exposure, still I think it would be better for them if they had a little more moisture and a less drying exposure. A few old clumps are in another border, which is a rather mixed up affair, and should have been replanted and rearranged years ago, but

this latter operation has always been postponed for another season on account of the healthy state of the plants. They are grand at the time of writing, several dozens of flower stems are loaded with large delicately shaped flowers growing up to the height of 2½ feet, showing what this plant will do for us if left alone and undisturbed for some years.

Among other plants in flower just now is *Asphodelus luteus*, which in some places is called *Asphodeline lutea*. The long narrow yellow flowers are very fragrant, and spring from an erect, tall and straight stem around which they are crowded, springing from the axils of the numerous long darker colored bracts, which surround the main stem from bottom to the tops. The flowers are semi-pendent and are produced in succession as the stem elongates. The leaves are awl-shaped, very narrow and long, dark green, and have a central line of a whitish green; it is an old but fine species, good for the border or the shrubbery. In rather deep soil it does best, and when planted and left alone for several years, will attain a height of 3 to 4 feet. Although a native of a warm country we found this plant perfectly hardy without any covering.

Asphodelus ramosus has larger and broader leaves, and as the name indicates, much branched flower stems with white flowers marked with a brown line down the middle of each segment, produced as in the first named from the axils of the bracts, forming long compact racemes 3 to 5 feet high. Asphodels are not grown near as much as they should be; they are effective and may be successfully introduced over *Viola cornuta*, *Polemonium reptans*, *draccephalums* or other dwarf growing plants.

Many other plants are in bloom now; I merely would mention *Lupinus polyphyllus* planted over a bed of the golden *Alyssum saxatile compactum* and looking its best at present. *Thalictrum aquilegifolium* is flowering freely among the golden dwarf *Achillea aurea*. *Linaria dalmatica* with its large yellow flowers produced on long spikes; each plant is surrounded by compact masses of *Draccephalum austriacum*, which also is beginning to send out its deep blue flowers. *Lotus corniculatus* is creeping close to the ground near by, *Alyssum alpestre* is coming on, *Reseda glauca*, *Aethionema grandiflorum*, the Oriental poppies, *Hemerocallis flava* and many others are out in good shape and promising to hold out for a long while. J. B. KELLER.

Rochester, N. Y.

Fern Notes.

PHLEBODIUMS.

This sub-genus of *Polypodium*, which is now included under the latter name by most authors deserves to be kept separate on account of the distinct characteristics of the species by which it is represented. In *P. aureum* we have a most useful fern, bold and effective in appearance, of graceful habit, and of a distinct shade of color. The surface of the fronds is of a glaucous green, with a peculiar shade of metallic blue; which has led to its being called the blue fern by many not well acquainted with fern names. *P. glaucum* is of more slender growth than the above and of a drooping habit. *P. sporadocarpum* is generally given as synonymous with *P. glaucum*, but the variety we grow as *sporadocarpum* is of more erect growth and the rhizomes are not so thickly covered with the woolly scales. Although sometimes recommended as greenhouse ferns, I find the *phlebodiums* succeed much better when grown in a high stove tem-

perature, and unlike many ferns, they will continue to make satisfactory growth throughout the winter provided a high temperature is maintained. They also develop the bluish tint to a greater degree when grown in heat and liberally treated. Few ferns derive so much benefit from the liberal use of manure, which may be either liquid or any good artificial fertilizer applied to the surface; but in using the latter care must be taken not to overdose them. A small quantity and the dose repeated at frequent intervals will be most effective. They may be potted in any ordinary compost, but rough porous soil is preferable, and plenty of drainage should be used.

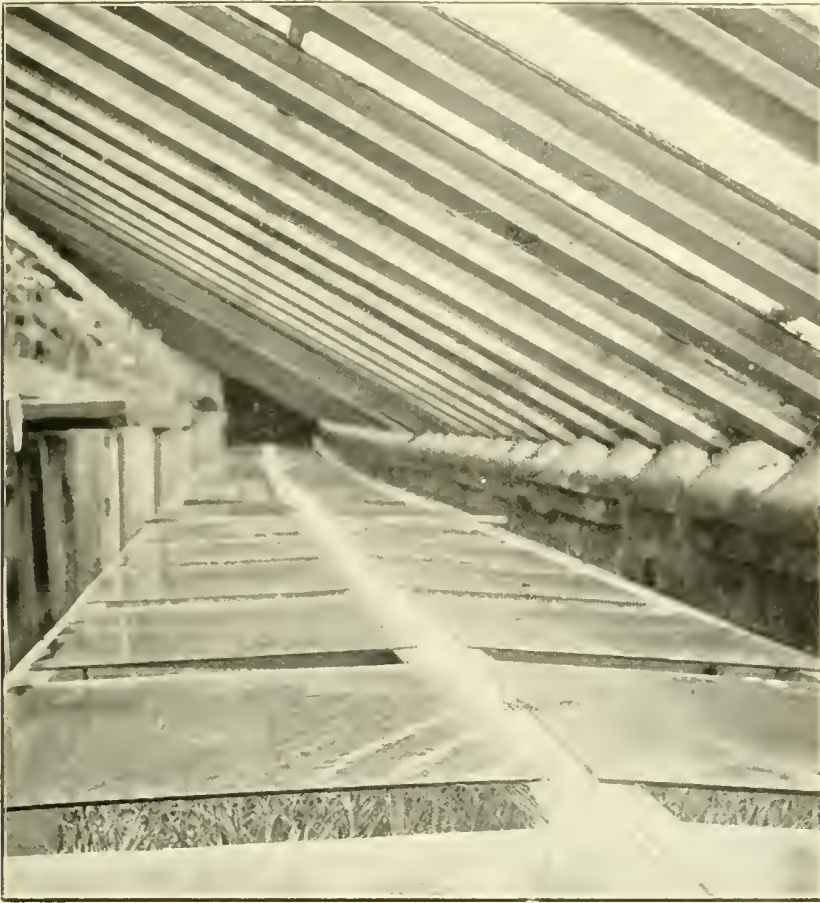
Young seedlings should be potted singly and later on three may be potted together in larger pots, taking care to have the points of the rhizomes arranged to spread in opposite directions. *P. aureum* shows its character best when grown on to a good sized specimen, making a grand plant for an 8-inch pot, but it is equally useful in a 5-inch pot. With good treatment quite large plants may be grown on in this size. For quite small plants *P. glaucum* is the most useful. I may here mention that *Polypodium glaucophyllum* is quite a distinct fern to the one referred to; the latter having long slender rhizomes, and small oblong entire fronds. A very pretty little fern but of no use for florists' work.

LOMARIA GIBBA.

This useful and distinct fern, though, perhaps, not so popular as it was a few years ago, still finds some admirers, and large numbers pass through our London market, and in the provinces it is still a great favorite. There are now several distinct varieties, though few have as yet been honored with distinctive names. The normal form, which has rather broad and short fronds, pale green, with no color in the stipes (or stalks) is the best, as it makes a very compact plant. The variety with reddish brown stipes makes longer fronds, but is often inclined to make fertile fronds prematurely, and when this happens they rarely make good plants. The variety *platyptera* makes a grand plant, but unfortunately it is difficult to get. I have frequently had a few plants make their appearance among batches of seedlings of the form first referred to though when sowing from spores which appeared to be good. I have never succeeded in raising seedlings, and I find other growers have the same experience.

It requires some care in collecting spores of the *lomarias*, they should be taken from fronds which have matured during the summer or early autumn, and from plants which have been isolated as far as possible from other ferns. Early in the spring is the best time for sowing; I find these make much the best plants, though sometimes later batches will do well. The spores do not germinate so quickly as those of some *pteris* and others, consequently the first seedlings may prove to be weeds. To those accustomed to raising seedlings it is not difficult to recognize the *lomarias* by the small round, dark green prothallia.

In growing on *lomarias* it is most essential to keep them going, if once they get checked they rarely recover and make good plants. The seedlings should be divided and potted singly as early as possible; they succeed best in a warm moist atmosphere, but must not be overwatered at the root. Although in a high temperature they will continue to grow throughout the year, it is better to give them a rest during the winter; if kept



A RUSSIAN PROPAGATING HOUSE.

rather dry and cool for a time, they make a much better start when placed in heat again early in the year and will soon overtake those that have been struggling on in active growth throughout the winter. They do best in a light open compost, and good drainage; by careful attention to watering and a liberal supply of manure after the pots are well filled with roots, quite large plants may be grown in 5-inch pots.

A. H.

New York.

A profound quiet in the neighborhood of the flower stores, retail and wholesale, and as the season advances each day is more and more of a day of rest, until it would seem as though the song "Every day'll be Sunday bye and bye" had reached its realization as far as the flower trade is concerned. Roses got their quietus several weeks ago; carnations held their ground until last week, and then it came on them too with a vengeance. They come in by wagon loads; they go off by wagon loads (city carts), and fortunate indeed is the wholesaler who gets a few dollars in to divide among his carnation growers. Sweet peas are all heaped up also, and quotations are now on a hundred bunches instead of a hundred flowers, white varieties selling best because in smaller supply. Peonies are abundant at present writing, but there is no special call for them, although no more effective flower exists for large decorations; but there are no large decorations. Decoration Day cuts but a small figure in local trade here, and all there is left to hope on is the steamer trade and the June crop of weddings and commencements, which from all accounts will be rather slim this year.

Early in the spring Jas. Weir's Sons erected an iron and glass structure extending out into the area in front of their place of business in Brooklyn. The new building projected considerably beyond the line of the other buildings in the neighborhood, and several of the neighbors applied for an injunction on the ground that it was a violation of the deeds under which the property is held. The suit has been decided in Weir's favor.

A New York Florists' Bicycle Club has been organized to take part in the parade on June 6. Quite a number of the young up-town florists are enthusiastic over the project. The club already numbers about forty. The intention is to parade in uniform, and their wheels will be elaborately decorated with roses and other flowers. Mr. Allie Warendorf is chairman of the committee of arrangements.

Wm. Elliott had one of the biggest auction sales on record last Tuesday, and reached the top notch on quality, quantity and price, geraniums bringing all the way from 10 to 20 cents each. Mr. Elliott reports a gratifying demand for stock of good quality, and says there is no difficulty to dispose of such at remunerative prices, but when rubbish is offered it finds no takers at any price.

The worthy gentleman on Greenwich street, who represents the so-called "New York & Holland Nursery Association," to whom reference was made in our notes of May 9, is still "at it." His latest novelty is the "sinquilis quintilium, 60 shades on one stem." This startling inscription is attached to what appear to be bulbs of *Lilium lancifolium rubrum*.

A. & F. Rolker have been obliged to run special sales every week recently. Last week they had an extra palm sale on

Barclay street, this week Pitcher & Manda's sale, and next week a sale for the Philadelphia growers. Better prices as a rule are realized at these special sales than on the regular days.

On the evening of Friday, 8th inst., Jas. Hart celebrated the completion of his 600 foot range of new houses at Madison with a good time to the workmen and his neighbors. The entertainment was held in the big shed, and about one hundred and fifty were present. Music and dancing were indulged in, and refreshments were served with characteristic liberality.

The Essex Heights Floral Co. have several houses of Scott carnations which are a sight to behold; such a crop of long stemmed buds is seldom seen, and they will be right in the height of bloom for Decoration Day. Mr. Van Reyper has several promising seedlings.

Some of the best white stocks ever seen in the city are being sent in by S. H. Powell of Hempstead. They are on sale at John Young's.

Jas. A. Fraser, formerly with R. L. Merwin & Co., is now representing The Lovett Company of Little Silver, N. J.

Boston.

At last the rain has come and there is great rejoicing over it. The drouth was broken on Tuesday by a copious shower. Such a long period of uninterrupted dry weather at this season of the year has never been recorded here. Crops of all kinds have suffered greatly. Even the large maples on the streets were wilted and drooping, and the grass was brown in many places. Another cause for alarm was the numerous forest fires which laid bare enormous tracts of land and had become almost uncontrollable. Planting will now go on vigorously.

There is but little to record regarding the cut flower trade at present. While not entirely dead it shows but small signs of life, and the great heaps of bleached out roses and sleepy looking carnations which are seen piled up in the boxes of the sidewalk vendors afford convincing proof that the supply is big and the outlet small. The wholesale stores are all badly overstocked and much stock will of necessity go to waste between the present time and Decoration Day.

Decoration Day orders are coming in as freely as heretofore and there is good reason to look for a big demand. This holiday has come to be, in this section, one of the most profitable, if not the most profitable, of the holidays for the general florist. The quantity of plants and flowers used is enormous and buyers as a rule care little for quality in buying flowers for Decoration Day use. The idea is to make as much show as possible, and everything goes.

Last Saturday saw an unusually small display on the exhibition tables at Horticultural Hall. James Comley was the principal contributor, and he showed a handsome collection of ornamental flowering shrubs.

The committee speaks encouragingly of the prospects for a successful June festival as arranged for by the Gardeners' and Florists' Club. The date of the entertainment is not decided upon, but it will be when native strawberries are ripe.

The daily papers are having some fun over the manner in which certain of the city fathers and politicians were fooled into entertaining a bogus "Mayor of Newburgh, N. Y.," who spent a few days here last week. Among the victims mentioned in the list is a prominent member

of the floral craft who acknowledges having given the distinguished (?) guest a drive through the parks and other appropriate entertainment.

Jackson Dawson has been on the sick list for a few days. The short season crowded the Arboretum work into a very brief period and overwork is undoubtedly the chief cause of Mr. Dawson's illness.

No appointment by the Mayor yet and the several candidates for City Forestership are still in the dark as to their prospects.

The New England Florist Co. has been incorporated. Capital \$3,000.

St. Louis.

The demand continues very light and irregular in the cut flower market. Figures are tending downward on everything. Stock has been very abundant during the week, and of exceptionally poor quality, owing to the extremely warm weather. Peonies are selling very slow. Sweet peas are very plentiful, and only the white ones find sale; they bring 35 cents per 100, while the other colors bring only 15 and 20 cents. Red carnations are selling at 50 cents per 100; other colors are sold at from 75 cents to \$1. Roses of all kinds are cheap; the best can be bought at \$2, others at from 50 cents to \$1.

Alfred W. Madsen, with the Chicago Folding Box Co., was a recent visitor.

The funeral of the late Carl Beyer took place on Thursday afternoon from the family residence, 3619 South Grand avenue. The affair was in charge of the Hasendener Post, G. A. R. The floral offerings were very fine; nearly all the florists in St. Louis were in attendance.

The Florists' Club's regular meeting was postponed on account of the death of Mr. Beyer, so that the members could attend the funeral. The next meeting will be held on Thursday afternoon, June 11.

The committee on florists' picnic will hold a meeting at Jordan's Saturday afternoon; Chairman Kunz reports that the picnic will be held at Clifton Terrace the latter part of June.

The Florists' Gun Club have their regular shoot every Sunday morning out at Tesson's place. They expect to send a team to Cleveland this year.

The heavy rain Monday night kept a great many of the bowlers at home, and only eight members braved the storm. Weber rolled high in three games, 495; Kuehn was second with 487, and Beneke third, 466. The highest single score of the night was 197, made by Weber. Some of the boys are talking of changing to some other alley, as this one is not kept in as good condition as at first. They think a change would benefit their rolling very much and make better scores than now. J. J. B.

Philadelphia.

Where shall we have our planked shad dinner is the question of the hour; shall we sail up the river or down? It is a very perplexing question, and has kept both the young and the old blood of the committee having the matter in charge in a quandary for some time. Like the old duke, first they say we'll go up and then it's decided to go down, and at this writing they are neither up nor down. But this will be settled in a few days, and in the meantime encourage a good appetite, for the table is to fairly groan with its weight of this toothsome fish and the various fixings that go along.

The bottom seems to have dropped out and there is scarcely anything left to even remind one of the business there was a week or two ago. Roses, carnations and sweet peas are very plentiful and are to be had at the buyers' figures. The weather, so warm last week, is now so cool that overcoats are almost a necessity, the thermometer registering as low as 50° at night. This cool weather has had a beneficial effect on the stock and it is in better shape. Kaiserin now has stems like Beauties, and it is preferred to the Bride. The best Beauties are now \$1.50 to \$2 per dozen, and teas, first choice, are selling for \$4 to \$5 per hundred. Carnations, extra, are \$1.50, and Christy of Delaware County is away up head, his stock being extra fine. In quantity there is no reasonable offer refused, and many still go to waste. The best sweet pease sell for 50 cents per hundred; they are now in good shape. Several growers have houses planted from which the sash has been removed, and the flowers are a fine color.

W. K. Harris has a batch of *Spiraea compacta*, which makes a nice decorative plant for the season; if he could only furnish a few decorations he would soon sell out.

The Penna. Horticultural Society had a bee meeting last Tuesday evening; there was an illustrated lecture and a paper, both of which were much appreciated. The main lecturer, who was to have spoken of the mission of the bee in the fertilization of flowers, was unable to be present. There were a few dahlias on exhibition, and very pretty flowers they were. A premium had been offered for Cupid sweet peas, but for some germane reason they failed to germinate or show up. The Cupid is all right, however; he has always been a trifle fickle, but this world would be a desolate place indeed without him.

It almost moves us to tears, when at times in looking over the various growers' boxes we notice the horticultural press being used as packing. In these days of the blanket newspaper surely it would be better to put away carefully the horticultural journals, when done with them for the moment and keep them for reference, and use the old newspapers, which can be had for half a cent a pound.

K.

Chicago.

The market this week shows conditions similar to those prevailing for a fortnight past. Prices run about the same, good roses showing a stiffening tendency. There is plenty of cheap stock, and no sale for it, nor is it possible to give any figures that are rigidly held to. In roses Meteor is seen in good quality at \$3; high grade Testout goes above this, but the rank and file goes much below. A few Kaiserins are disputing place with the Brides. Some second crop Brunners from Stielow are fine in color and can dispute places with the Beauties for size; they bring \$1.50 a dozen. Carnations are in many cases very poor, weakened by the heat. Decoration Day prices are to go into effect on the 27th and advance prices are \$4 to \$6 for roses, and \$1.50 to \$2 for carnations.

Peonies are very plentiful, and the ordinary pinks and reds are down to 2 and 3 cents, but the fine "drop whites" have made their appearance, and sell for 50 to 75 cents a dozen. They are very fine, but of course will soon be over. It is said there will be an abundance of peonies for the 30th. Syringa is here, and very pretty and fragrant it is, selling for 25 cents a bunch. Snowballs and lilac are

past, with no mourners. And the Texan gardenias are here—oceans of them—the express companies are unloading them on the wholesalers in an effort to realize the express charges. They are everywhere on the streets, and the cheap restaurants are giving them away. A good many of the flowers are bruised and brown; however, there is no reason why the handsome glossy leaves should not be made into "laurel" wreaths for Decoration Day; they are very lasting and could be bought cheaply, and either with or without a tricolored sash they would be just the thing for cemetery use.

Sweet peas are rather poor in color and texture; they have to be good for 40 cents. Cornflower is little called for, though very good; it sells for 25 and 30 cents. Valley from cold storage is fine at \$3 and \$4. *Coreopsis lanceolata* is seen, but doesn't seem to sell well.

The cold contracted by Mr. J. C. Vaughan on his return from the east developed into a fever that has kept him confined to the house ever since. He seemed dangerously ill at one time but is now much improved, and it is now simply a question of building up and recovering strength.

Visiting Chicago: A. Dimmock, St. Albans, England; George Souster, Elgin, Ill.; A. L. Shriver of the Hoopeston Floral Co., Hoopeston, Ill.

Pittsburg.

The weather has continued very favorable for outdoor operations, and the chances for a frost reduced to a minimum. The demand is steadily increasing for bedding stock, especially in the Allegheny market, where trade has been quite brisk, the facilities there being much better for display of plants, while in the Pittsburg market it has not been quite so lively, but all are hopeful that next week will see a great change for the better. Prices are fair, \$1 to \$1.25 per dozen for geraniums, other stock in proportion. The cut flower trade continues dull, funeral work and a few social functions constituting nearly the whole demand. Stock is very plenty, far too much so and prices range accordingly; carnations are a drug at present at 20 to 25 cents per dozen.

The florists were too busy evidently to attend the meeting of the club on the 14th; very few were there, and as the next regular meeting night is the 28th, and all would then be in the rush for memorial day planting, a special meeting will be held during the week following instead.

Randolph & McClements of the east end have been very busy during the week and have had a large force engaged in decorating the grounds of many of the finest places in that, the most fashionable dwelling portion, of Pittsburg. The season being so advanced brought the demand all at once, and has kept them hustling.

The contract for decorating Exposition Hall and City Hall for the Saengerfest was given out on the 16th, Gustave Ludwig securing the floral part of the decorations. He also secured the decorating of the Froshin Society Club house interior and exterior, and Allegheny Turner Hall.

J. F. Gibbs & Son, Woodville, Pa., report a good demand for plants, they disposing of them near at home, at Carnegie principally. At their stand in Allegheny market under the personal supervision of Mrs. Gibbs their cut flowers are disposed of, and they are one of the few in this line who grow the stock required for this branch of the business.

W. J. Fornof & Bro., of Mt. Troy, just outside city limits, have been showing a

good line of bedding stuff, it is fully equal to anything in the market, and they are getting their share of trade.

Miller Bros. of the 11th Ward, Allegheny, report business with them very fair and are getting their share, but could do more. Their stock is up to standard.

Mr. M. I. O'Brien, Sharon, Pa., Frank Lannp, Wheeling, W. Va. and J. W. Glenn of Kittanning, Pa., were with us this week. REGIA.

Henry A. Gane.

We herewith present to our readers a recent picture of a gentleman, who though not a florist, yet thoroughly interested in the art, and a friend and benefactor to all the profession, has given to us one of the grandest chrysanthemum seedlings ever produced in this country.

Mr. Henry A. Gane was born at Frome, Somersetshire, England, in 1811, spending his boyhood at this place. Arriving at his majority he decided to cast his lot with the New World. He spent some few years in the different New England States and in 1846 established himself in Boston in the book-binding and book-binding supply business, which he continued for thirty years. He early accumulated a competency, and having that innate love for horticulture which could not be appeased surrounded by brick walls purchased a beautiful residence at West Newton, one of Boston's noted suburbs and built thereon a small greenhouse in which to spend his leisure.

When the chrysanthemum was first introduced into this country Mr. Gane was an early purchaser, and became an ardent enthusiast in the culture of the Queen of Autumn. Upon learning the mysteries of cross-fertilization he immediately began to experiment, and a visitor to his chrysanthemum house in the fall will see many beautiful varieties unknown to the commercial world. Some of these seedlings he has shown at the exhibitions of the Massachusetts Horticultural Society and has received the Appleton silver medal for a collection of seedlings and the society's silver medal for Mrs. Jerome Jones. When this variety was first shown there was an immediate call for its dissemination, and he was induced to sell it. The other seedlings he has always given away to his friends; among these which might be mentioned are Golden Ball, which received a certificate of merit by the National Chrysanthemum Society of England; West Newton, awarded a certificate by the chrysanthemum Society of America, and many others which have received notice at various exhibitions.

Mr. Gane is now in his 86th year, and it is a pleasant sight to see him in the fall spending his days among his pets taking notes of the different varieties and their habits.

Buffalo.

We have had nothing but fine warm weather, with only a shower or two, but the public are the best judges and are not led away by the fine weather, and consequently there is no great rush in the plant trade as yet, and won't be till about the 25th. The market is now a great factor in the distribution of plants; like other large cities, as we grow the plant business is largely done at the markets. I believe if the aggregate of all the plants sold at the different markets could be ascertained it would be far in excess of the sales at the greenhouses. And who wants a better business than to supply some of these market people? They will

take a wagon load of one kind and you take your cash and drive home, and no fault found. There is a large class of people who believe and always will believe that they can buy on the market cheaper than at a store or greenhouse. I have known to the contrary in many instances, still it goes.

Trade in the stores is getting dull. Carnations are still coming in plentifully but smaller, and sell at the popular prices of 20 to 25 cents per dozen. There are plenty of roses to fill the demand. What are we going to do for cheap Decoration Day flowers? Lilacs will be entirely gone, and so is outside valley. It will be hard scraping to find material for the poor veteran's resting place.

The writer managed to attend a meeting of the club last Tuesday, but no quorum assembled; too bad, as there were



H. A. GANE.

several matters of importance to come. President Mepsted had a relative who was bound for British Columbia call on him the moment he was starting for the club, so that stopped him; for others it was possibly too warm.

The old Bailey greenhouses are once more to rent. This place has changed hands many times since '79. The last lessee, Mr. Eibers, has given it up for reasons of which I am ignorant.

A few, a very few, it seems, will start for Wilkesbarre to show John Burton and George Anderson how to break up Peoria blackbirds and to learn from Mr. Ben Dorrance how to build and ventilate modern rose houses, and to get from the graceful George Fancourt that good advice, "Bag 'em, me boy, bag 'em."

Mr. Mott was here this week on his monthly call and we have just seen Mr. Dimmock of "old Lannun, you know."

W. S.

Toronto.

The lecture "Ornamental Horticulture for Canada" given by Prof. Wm. Saunders, director of the Ottawa Government Experimental farm under the auspices of the Toronto Horticultural Society, was considering the short notice given of it, a great success. Five hundred invitations were sent out and about two hundred attended; a little more advertising would have no doubt brought out many more. The lecture was most interesting and

enjoyable and the beautiful lime light illustrations showed many well and naturally grown specimens of flowering shrubs, conifers, etc., which we in Toronto had not supposed to be hardy in this part of Canada. Illustrations of the experimental farm in the northwest, of vegetation in British Columbia, and of Rocky Mountain scenery were also given. After the lecture many of those most interested gathered round the professor and questioned him on many points which he was pleased to answer as fully as he could. Let us have some more of these lectures.

The flower market on Saturday was as full as it could stick of plants and flowers, especially the latter. There were literally wagon loads of lilac, Tartarian honeysuckle and such like, besides carnations and roses galore, the supply was so much greater than the demand that prices went all to pieces in the afternoon. I asked one man what he did with all he had left and got the reply, "Oh well! I didn't carry them home again." The weather is still fine and mild and, with the exception of a small shower or two, very dry. The public gardens will probably begin planting out next week unless a cool spell sets in and at present there is no sign of it.

Nothing important has been done in the city parks and gardens question mentioned last week, except that estimates have been reduced somewhat and the mayor has been making himself particularly disagreeable by making nasty remarks concerning the commissioner and his department generally. E.

San Francisco.

There has not been any great change in the condition of the market since last week, except that the great quantities of longiflorum that were coming in last week have shortened up considerably, and consequently the glut is over. Violets seem to be holding out very well, and another thing they seem to be holding their color a little better. Roses are of very fine quality just now, but are not bringing very much. We note plenty of well grown outdoor roses in the windows now. Sweet peas, which one would expect to be coming in rapidly at present as yet have not done so. The demand for them is very good. The cold backward spring helped to keep them from blooming, and in many instances the late frosts killed all the first crop of buds. Carnations are very fine, particularly Scott, Portia and McGowan's. We note a few Dean Hole carnations lately, also Storm King. There seems to be a general complaint that this last named variety is too shy a bloomer to grow profitably. The same may be said of Meteor and Dean Hole.

Mr. Geo. Draycott, late of D. O. Mills' place, accompanied by his wife and son, left for Europe on Saturday. Mr. Draycott will visit his old home in England.

D. M. Ferry of Detroit is here in California attending the great floral carnivals now in progress in all the large cities.

The fine warm weather during the past week is greatly benefiting all growing seed crops and bringing sweet peas into bloom. In many places in Santa Clara where the water laid on the ground for a time during the winter the onions have been completely washed out or destroyed, also the blight is at work in many instances. Lettuce seems to be doing very well and will probably turn out all right, also leeks seem to be in a healthy condition. Cupid sweet pea is growing very well, but is a very slow grower and in all probability a very shy seeder, as the first

crop of blooms fall off and do not go to seed. Asters are growing splendidly.

W. Atlee Burpee of Philadelphia is here looking over growing crops, and also taking a trip through the various seed farms.

Hon. J. Sterling Morton, Sec'y of Agriculture, is here in San Francisco. Mr. Morton is greatly interested in the sugar-beet industry on this coast. Regarding the controversy pertaining to the letters of the seed contract which is now attracting so much attention, Mr. Morton has nothing to say. He claims that the only injustice in the free distribution of seeds is that all the people have to pay for what is given only to a few.

Mr. Gerhard Kolligs has opened up a very pretty flower store at 11 Ellis St.

At the Hobart-Williams wedding this week a large quantity of white orchids were used. Also great quantities of roses, ferns and sweet peas.

The great floral festival of the Santa Clara Rose Society is over, and is pronounced by all as a great success, and the society is to be congratulated in making this, their initial carnival, such a pronounced success. A great floral pavilion was erected in Agricultural Park, where the display of flowers was made. Great quantities of roses, lilies, carnations and sweet peas were seen on all sides. The hall was also very artistically decorated with evergreens and hunting. On Wednesday a great floral procession took place and it was certainly the most elaborate one ever witnessed here. The fiesta closed on Saturday night with a grand ball, and everybody in the city was in mask. A movement is on foot here in San Francisco to try and inaugurate an annual floral carnival similar to our sister cities, and we have every reason to believe it will be successful.

A visit to Mr. David Tuttle's place shows that gentleman to have all his stock in fine order. His ferns are looking in splendid shape, also begonias, palms, etc. Mr. Tuttle's chrysanthemums are growing nicely, and he expects to capture the prizes this year, as he did last fall.

Mr. J. V. Esterhart has been appointed instructor in botany at the University of California at a salary of \$1,200 a year.

A shocking accident occurred to the 12 year old daughter of Louis Becanne, the rose grower of Alameda. The little girl was fatally burned by an explosion of gasoline, near one of the greenhouses. Mr. Becanne has the sympathy of the trade in his affliction.

METEOR.

Rochester, N. Y.

Flowers sell fairly well now, though prices remain low owing to outdoor flowers being very plentiful. Snowballs, deutzia, tamarix, *Pæonias officinalis*, *tenuifolia* and *arborea*, iris, *hemerocallis*, columbines and a host of other things make a great show in the florists' windows. One firm for several days had their store decorated with wagon loads of wild azaleas which, contrary to expectations, remained fresh for a long time and were greatly admired by all visitors. Inter-mixed sparingly with sprays of wild smilax and andromeda branches, one side of the store was a complete mass of bloom, interrupted only here and there by a tall foliage plant or a lofty palm. Not many expensive decorations are called for, funeral designs constitute the bulk of present work, but quantities of outdoor flowers and bunches of carnations, roses or valley for the smaller vases are in order. Flowers are used more than they were a few weeks ago but they are cheap.

The trade in bedding plants is getting

worse every day; prices are away down and nobody can boast of successful spring sales in this line. The weather is excessively dry, so that planting has been stopped by nearly everybody, waiting for the much needed rain.

The unhealthy state of the plant business does not seem to scare new beginners. Mr. Ferd. Tente is starting into the plant business, and one of his contemplated three houses is finished to begin with. He is situated at Hoeltzer street, with about 2 acres of land, and will run a general florist's establishment, not making a specialty of any certain plant for the present until he finds out which article will pay him best.

Mr. Bishop has given up his city store and will devote the whole of his time to his plants and flowers at his well equipped greenhouses on North St. Paul street, where he has been for long years growing roses, carnations and chrysanthemums for the Rochester market.

Chas. E. Krueger also discontinued his store and will grow plants and flowers hereafter in his houses on Monroe avenue or may remove them to move spacious quarters on the outskirts of the city.

J. B. K.

Utica, N. Y.

That carnations have the call in this city can be seen by the fact that whenever two or more members of the craft meet they immediately plunge into a discussion on varieties, rust or bacteriosis. Although they seldom agree on all points, it cannot be denied that these discussions are productive of good. There are still some who hold that rust can be kept in subjection by heavy syringing. This opinion whenever given immediately raises a storm of objections. The following question was propounded at the last conference: "In case the unlimited use of water overhead should be of benefit against rust, what would you do with the bacteriosis bound to be induced by this method?"

The state convention of the G. A. R. which is in session here at present made quite a little flurry in cut flower circles. Several large receptions used stock up closer than for some time past.

A recent visit to J. C. Spencer showed that the fishing trip must have been postponed, as everything was in the pink of condition. A house of McGowan, after producing heavily all winter, was still a sight. While this variety may not be the ideal white, when done as shown by Mr. Spencer it very nearly fills the bill. A carnation house erected last fall is the first in this locality to use butted glass. As a result several have been converted to this style of glazing.

At Baker's establishment business was reported good in some lines, plant trade a little slow, but coming on. At his upper place thousands of young ferns are taking the place of spring stuff as fast as benches are cleared. Pteris in several best sorts for fern dishes, aspidiums, onychiums, adiantums and selaginellas are the varieties grown this year. A bench was being planted with young hydrangeas for growing on under glass. Good success was reported for two years under this treatment, it being claimed that the wood ripened up earlier and set buds much better than outside. They are lifted and potted in the fall in time to rep'ant with carnations. Roses and carnations fill eight houses, from which there is still being cut a large quantity of bloom. A hatch of Buttercup planted on the bench last June is still doing finely.

Bouton d'Or is the best yellow here. This variety propagated early so as to take in large stuff and grown cool is a winner.

Donald McLean says he will not build this year, having erected three houses last fall 75x18 making him about 12,000 feet of glass. This he says will do for the present; his heating apparatus is a model. Reports a good start on the hedging trade.

F. J. B.

OBITUARY.

MRS. W. A. REIMAN.

Mrs. W. A. Reiman, the well-known florist of Vincennes, Ind., died at her home in that city May 13. She had been in frail health for many years, but possessing great energy she continued her business occupations until a week before her death, when physical strength gave way entirely.

Mrs. Reiman was born in Syracuse, N. Y., 45 years ago, coming west upon her marriage to Mr. Reiman, who was a railway conductor. Beginning the cultivation of flowers as a recreation she finally entered the business, succeeding Mr. Balmer. She was very successful, and occupied a prominent position among Indiana florists. Personally Mrs. Reiman was a lady universally esteemed, whose ready benevolence and exemplary life secured friends among all who came in contact with her. Her surviving family consists of her husband and an adopted daughter.

Bath, Me.

J. H. Ramsey & Co. are about to commence building an additional rose house 100x20 feet. This addition will give them a total of 8,000 feet of glass. This firm has met with good success during the comparatively short time it has engaged in the business here.

HOMO.



Jaggs as a Botanist.

"Ordered yer mournin' yet, Jaggs, old boy?" inquired the man who was wandering through the immortelle letters endeavoring to find enough vowels to make "Our lost loved one," while he wished he had persuaded the customer that "Rest" was more appropriate. "I see yer chum the Shah o' Persia went off the hooks last week."

Jaggs dropped into a resting position on the head of a barrel with a disgusted grunt. Being enveloped in the unusual respectability of a brand new bed ticking apron he had been told off by the "old man" to act as retail salesman, and had

just finished a triumphant deal with an old lady who wanted two geraniums, an ageratum and a very prickly cactus all packed within the confines of a black silk shopping bag, this feat being one of the conditions of the sale. He made no answer for a time, until under the soothing influence of a smoke, then began.

"Wot riles me is all this here talk about the refinin' influence of flowers. Looks like it when an old gal comes in and wants to buy 4-inch geraniums for 75 cents a dozen, plantin' thrown in, and then begs a batch o' begonia slips free gratis for nothink, 'cos she does love flowers so. Talk about lovely woman—old Shylock was a bloomin' infant alongside o' some o' my customers."

There was a solemn pause, broken only by the rasp of some very blunt rose shears, plowing their way through a coil of rusty stemming wire.

"It's aggravatin' enough when they don't make no bones o' their meanness. There was old Lady Howard de Redcliffe, the old gal I worked for afore I come to this here bloomin' old desert. Maybe you've heard o' her; she was great on orchids and piety; used to go about droppin' Dissentin' tracts like they was autumn leaves. When she come across one o' the chaps broilin' among the orchids, feelin' like he was in a bloomin' limekiln, like as not she'd give him a regular brimstone tract about the perdition o' strong drink. Well, one day, when I was nailin up peach trees in the orchard house, the ladder slips, and there I was with a broken leg, laid up for nigh on three months. Her ladyship took on terrible when she hear it"—here an appreciative grin was visible among the audience—"because she have to keep on payin' my wages same as if I was workin', and she think a precious sight more o' twenty-one bob a week than I do. One day she marches into my lodgin's and sits down, and says as she unties her bonnet—and a precious scaly old bonnet it was, nigh as shabby as what the Queen wears, and they do say there ain't another respectable widder in London as would wear the bloomin' old bonnet Her Majesty does—she says, 'Jaggs,' she says, 'this accident is most unfortunate. Do you realize as I've got to keep on payin' your wages while you lie here doin' nothink. Now I'll tell you what I'll do—the housekeeper has fifteen pounds of raisins to be prepared for the Christmas puddings, and I'll send them down here for you to stone—you must get very tired of having no amusement.' I says 'It's very kind o' yer ladyship, I'm pertic'lar fond o' raisins.' She give a grunt, but say nothink; then she drop around a few tracts about the blessedness o' misfortune, and shins out."

"And did she send the raisins?" enquired the audience.

"Well, no," returned Jaggs with a grin. She seemed like she hadn't confidence. She told the foreman if I couldn't do nothink else I could paint labels and prick off seedlings, just for a harmless amusement."

"It's a wonder you ever parted from that dear old lady," observed the man who was stemming primulas, and using various sea blessings when the wire sheared the blooms off the stem.

"It is," observed Jaggs, "but when Veitch was just beggin' me to go plant collectin' for 'em in Polynesia I reely hadn't the heart to refuse."

"Come off," old chap," was the general chorus, "You'd make a daisy plant collector."

"That's what Veitch thought," calmly observed Jaggs. "They just make a for-

tun' out o' some o' the novelties I sends back—there was a pitcher plant with pitchers as big as a Mulberry street grower—talk about them nepenthes bein' insectivorous—why, that plant, as they ought to ha' named Jaggsii if a chap ever got his deserts, that there nepenthes lives on live squirrels! I reckon that's why Veitch never sent it out—its living was too expensive. And then the liquid in the pitchers was so uncommon strong that a chap couldn't grow it—without violatin' the excise laws. But it wasn't that that queered me in my collectin'; it was all along o' my runnin' up agen the sacred mronga warakai tree. Ever heard anythink o' that?"

"Not unless it's a first cousin to that there man-eatin' tree of Madagascar," suggested one of the auditors.

"Now don't you think you're funny," observed Jaggs with some asperity. "I fancy if you was to run agen the mronga tree, wavin' eighty-six snaky arms in the air at wonst, and a-swallerin' a full grown native like he was a pill, and only spittin' out his war club, which was full of iron spikes, you'd think there was some curiosities as Nicholson's Dictionary hadn't got onto. I says to myself 'Jaggs, old boy, just capture that tree, keep him in a strong cage like a lion at the Zoo, take him down to the R'val Aquarium, and yer fortun's made.' So I lays my plans, which was to chloroform that there tree with poppy tea—there was any quantity of wild poppies, all the colors o' the rainbow, and bigger than soup plates—it's a wonder they ain't in cultivation—then I'd bind the bloomin' old tree with native hemp, while it was stupefied-like, and get it down to the coast, where I could box it up securely. All went well, but what with the journey and the joltin' blessed if that tree didn't begin to revive. Afore I knew what happened it broke loose, started to swaller natives like they was oysters, and the last I see it was wallerin' in gore. I took to a raft, bein' harassed by the savages till I looks like a pincushion, I was stuck that full o' poisoned arrers, and after driftin' about for over a week without a bite or sup I was picked by a Japanese man o' war and took to Yokohama. Tell you wot, there ain't nothink like plant collectin', if you want to run up agen a lot o' bloomin' freaks."

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By experienced florist. A1 position only. ADIANTUM, care Am. Florist.

SITUATION WANTED—By German, single, 12 years' experience; best references; private place preferred. R K, care Vaughan's Seed Store, Chicago.

SITUATION WANTED—By experienced gardener and florist; thoroughly competent in all branches of greenhouse and out door work. Address GARDENER, care American Florist.

SITUATION WANTED—As foreman, commercial or private; German, married, 25 years' experience; good references. Address T A, care Vaughan's Seed Store, Chicago.

SITUATION WANTED—A florist and gardener capable of taking full charge of private place would like situation in country. Years of experience. Good references. R R, care American Florist.

SITUATION WANTED—To take charge by a practical grower of roses, carnations, palms, ferns, mums and general greenhouse stock; a life experience in Europe and this country; single. Address GROWER, care American Florist.

SITUATION WANTED—An experienced florist and gardener would like to take charge of a large commercial place, or as superintendent of one of the larger parks in United States. Address ERIK HAY, care Mr. E. Hogenson, 106 Fifth Ave., Chicago.

WANTED—Catalogues of nurserymen, seedsmen, florists and florists' supplies. J. CALLAHAN, 7 Lockwood Ave., Stamford, Conn.

WANTED Six or eight experienced seedsmen as travelers. Apply with references; also state age, experience, section previously traveled. L. L. MAY & Co., St. Paul, Minn.

WANTED—A first-class grower of roses, chrysanthemums, violets and general cut stuff. Must be well up in palms and ferns. Give references. X Y, care American Florist, Chicago.

WANTED—All bills against Albert Fuchs Floral Co., Albert Fuchs, Sophia Fuchs or Julius Martini, if guaranteed by Mrs. Albert Fuchs before May 10, '96. Check will follow all honest claims if bill is in before June 10, '96. I hereby give notice that I am not responsible for anybody but myself after May 10, as a divorce has been granted, and I run and own the 21 greenhouses and property on Evanston Ave., now in my name only. Respectfully ALBERT FUCHS.

FOR SALE—Two 9 section Carmody boilers, good as new. Price on application. LEWIS TURNER, Kenosha, Wis.

FOR RENT—Five greenhouses (5,000 feet glass) and five acres ground in a western city of 30,000. Address R & C, care American Florist.

FOR SALE—An old established retail store in Chicago, south side. Satisfactory reasons given for selling. Address M K, care Am. Florist.

FOR SALE—At half price three greenhouses, stock, boiler, pipes and everything belonging to it, if applied for soon. W S P, care American Florist.

FOR SALE—Very cheap, a lot of extra good second-hand 3-inch boiler tubes, with collars all ready for packing; tubes about twelve feet long. W. H. SALTER, Rochester, N. Y.

FOR SALE—Greenhouse containing 5,000 feet of glass, located in county seat, 4,000 inhabitants and the only greenhouse in the county; and connected with all the other towns in the county by telephone; good reasons for selling. This is a rare chance. Address FLORIST, Tuscola, Ill.

FOR SALE CHEAP—Florist business; 5,000 ft. square feet of glass, the stock ready for spring trade; hot water heating, 2 sheds, dwelling, etc. All in good condition. Rare chance for the right man. To be sold on account of ill health. For particulars address E. TIEDENANN, O'Fallon, Ill.

FOR SALE.

Owing to the recent death of my husband I am compelled to offer for sale the West End greenhouse stock at Mt. Pleasant, Iowa. This is one of the best selected stocks of plants in southern Iowa; good trade; well established business. Very liberal terms made to anyone desiring to buy. Address

MRS. H. COLCLOUGH, Mt. Pleasant, Iowa.

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ISMENE CALATHINA—Nothing better for cut flowers. Strong flowering bulbs, \$2.00 per dozen; \$15.00 per 100.

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P. O. Address BABYLON, LONG ISLAND, N. Y.

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No reduction made for large space.

The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
wares pertaining to those lines ONLY. Please to
remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure
insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

Society of American Florists.

RULES RELATING TO THE MANAGEMENT OF THE
ANNUAL TRADE EXHIBITION.

1. The Society of American Florists shall, through the Executive Committee, control all features of the trade exhibition.

2. There shall be appointed annually at the winter meeting of the Executive Committee a superintendent of exhibits. The vice president of the S. A. F. or the local organization in the place where the convention of the current year is to be held shall be invited to recommend such superintendent for election by the Executive Committee, as aforesaid.

3. Said superintendent shall have general charge of all details of the annual exhibition, and shall be under seven days' full service and pay at and during the convention.

4. He shall receive all applications for space and assign the same in the order in which they are received by him. He shall provide and arrange all necessary tables and staging.

5. Judges shall be appointed by the president and secretary at least one month before the exhibition. The president and secretary may appoint substitutes in place of judges who may be absent.

6. The exhibition shall be closed between the hours of 2 and 4 p. m. on the first day of the convention, during which time the judges shall pass on the exhibits, and they shall report promptly to the secretary on the same day. Exhibitors shall be excluded from the hall while the judges are at work.

7. Awards shall be given as follows: Highest, Certificate of Merit; second, Honorable Mention; third, Highly Commended.

8. The judges shall withhold awards on unworthy exhibits.

9. Judges shall be governed by the merits of the article as exhibited and shall state in their report on what special points of excellence awards are based.

10. To case any article or device has received an award at a previous S. A. F. exhibition awards shall cover subsequent improvements only.

11. No award shall be made covering the quality of seeds, fertilizers, paints and other articles of such nature that an intelligent opinion cannot be had without a practical test, but awards for creditable display may be given.

12. Doors of exhibition shall be closed five minutes before the opening hour of each session of the Society, and remain closed during the session.

13. Exhibition to be open not less than two hours before the opening of the morning sessions, to remain open during the day, except during the session hours, and as provided in Sec. 6, and to remain open one hour after the closing of the evening session.

14. Wall space shall be measured four feet in height, and when practicable a table not less than one foot wide shall be added gratis, if desired and applied for with entry.

15. Space desired shall be designated in square feet. A uniform charge of 25 cents per square foot for all space will be made, excepting that all plants and flowers contributed for exhibition purposes only shall be admitted free.

16. Exhibits not in position before 1 p. m. on the first day of the convention may be excluded from the report of awards.

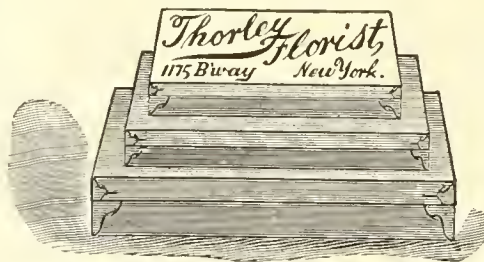
17. No articles exhibited shall be removed until after the close of the last day's session, except by permission of the superintendent of exhibition.

18. Exhibition classes to be arranged as follows: A—Plants; B—Cut Blooms; C—Boilers and Heating Apparatus; D—Greenhouse Appliances, including flower pots; E—Florists' Supplies, including Fancy Earthenware; F—Bulbs and Seeds; G—Miscellaneous.

19. Exhibitors may group their goods together, excepting in the case of living plants and cut flowers. These shall be shown in a separate department from the other classes.

20. All adjustments not covered by rules or published action of the Executive committee shall be referred to that committee.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.



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Carnations, ordinary.....	.25@ .50
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Sweet peas per 100 bunches.....	1.50@ 3.00
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Harrisli.....	2.00@ 4.00
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Asparagus.....	.50
Smilax.....	12.00@15.00
	BOSTON May 20.
Roses, Gontler, Niphetos.....	1.00@ 2.00
" Perle, Mermel.....	2.00@ 3.00
" Bride, Bridesmaid, Meteor.....	2.00@ 4.00
" Beauty.....	5.00@20.00
Carnations.....	.50@ .75
" fancy.....	.75@ 1.50
Valley.....	2.00@ 3.00
Longiflorum, callas.....	4.00@ 6.00
Mignonette.....	2.00@ 3.00
Sweet peas.....	.25 @ .50
Adiantum.....	1.00
Smilax.....	15.00@20.00
Asparagus.....	50.00
	PHILADELPHIA May 20.
Roses, Beauties long.....	10.00@16.00
" medium.....	8.00@15.00
" short.....	3.00@ 5.00
" Brunners.....	8.00@16.00
" Brides, Bridesmaid, La France etc.....	4.00@ 6.00
" Kaiserin.....	3.00@ 4.00
" small teas.....	1.00@ 3.00
Carnations, fancy.....	1.00
" first quality.....	.50@ 1.00
" seconds.....	.50
Sweet peas.....	6.00
Harrisli.....	15.00@20.00
Smilax.....	35.00@50.00
Asparagus.....	1.00
Adiantum.....	1.00
	CHICAGO, May 22.
Roses, Beauties.....	8.00@20.00
" seconds.....	4.00@ 6.00
" Brides, Bridesmaid.....	2.00@ 4.00
" Meteors.....	2.00@ 4.00
" Perle, Gontler.....	1.00@ 2.00
" Testout.....	4.00@ 6.00
Carnations.....	.75@ 1.00
" fancy.....	1.00@ 1.50
Harrisli.....	4.00
Longiflorum.....	5.00
Valley, cold storage.....	3.00@ 4.00
Cape jasmiae.....	1.00@ 2.00
Mignonette.....	1.00@ 2.00
Sweet peas.....	.25@ .50
Irises.....	2.00@ 3.00
Paeonies.....	2.0 @ 4.00
Corndflowers.....	.25@ .50
Smilax.....	15.00@18.00
Adiantum.....	1.00
	ST. LOUIS, May 21.
Roses, Beauties, long.....	5.00@ 8.00
" short.....	2.00@ 4.00
" select stock.....	2.00@ 4.00
" general stock.....	1.00
Carnations, fancy.....	1.00@ 1.50
" ordinary.....	.50
Valley.....	2.00
Harrisli, long.....	10.00
Callas.....	8.00@10.00
Tulips.....	2.00
Sweet peas.....	.25@ .35
Paeonies.....	2.00
Smilax.....	10.00@15.00
Ferns, fancy.....	1.50
Ferns, dagger.....	1.00
	BUFFALO, May 21.
Roses, Beauties.....	15.00@5.00
" Meteors.....	4.00@ 5.00
" Bridesmaid, Mermets, Bride.....	3.00@ 4.00
" Cusin, Perle.....	1.25@ 1.50
Carnations, common, long.....	.75
" short.....	6.00@ 8.00
Callas.....	6.00@10.00
Harrisli.....	.25
Sweet peas.....	4.00
Valley.....	15.00@20.00
Smilax.....	1.25
Adiantum.....	50.00
Asparagus.....	50.00

GEORGE A. SUTHERLAND,
 Successor to PECK & SUTHERLAND,
 Successors to WM. J. STEWART.
Cut Flowers & Florists' Supplies
WHOLESALE.
 67 Bromfield St., BOSTON, MASS.
 New England Agent for the GREAT ANTIPEST.

When you write an advertiser please state that you saw the adv. in the FLORIST.

DO YOU WANT detailed information about the organization and workings of the various national trade organizations? You will find what you want in our trade directory and reference book for 1896. Price \$2 00.

John I. Raynor,
 49 WEST 28th STREET,
NEW YORK.

**SPECIAL EXTRA STOCK OF
 AM. BEAUTY, METEOR,
 BRIDESMAID, BRIDE.**

**DISBUDDED CARNATIONS.
 FANCY GRADE.**
 Extra Fine SWEET PEAS.

THOS. YOUNG, Jr.
Cut Flowers,
WHOLESALE,
 43 W. 28th Street, NEW YORK.

WALTER F. SHERIDAN,
**WHOLESALE
 FLORIST,**
 39 West 28th Street, NEW YORK.

Roses shipped to all points. Price list on application.

Edward C. Horan,
 34 W. 29th Street, NEW YORK,
WHOLESALE • FLORIST.

Careful Shipping to all parts of the country.
 Price list on application.

Purdy & Blauvelt,
**WHOLESALE DEALERS IN
 CUT FLOWERS,**
 57 W. 30th St., NEW YORK.

JOHN YOUNG,
FINE ROSES
WHOLESALE,
 51 West 28th St., NEW YORK.

FRANK MILLANG,
CUT FLOWERS,
WHOLESALE, COMMISSION,
 408 E. 34th Street,
 Cul Flower Exchange, NEW YORK.

JULIUS LANG,
Commission Dealer in Cut Flowers,
WHOLESALE,
 53 West 30th St., NEW YORK CITY.

MILLANG & WINES,
WHOLESALE FLORISTS,
 501 Sixth Avenue,
 CORNER 30TH ST., NEW YORK.
 Consignments Solicited.

The Seed Trade.

AMERICAN SEED TRADE ASSOCIATION.

S. E. BRIGGS, Pres.; T. W. WOOD, 1st Vice-Pres.; ALEX. RODGERS, 2nd Vice-Pres.; A. L. DON, 114 Chambers St., New York, Sec'y and Treas. The fourteenth annual meeting will be held at Niagara Falls, N. Y., June 9 to 11, 1896.

OSCAR H. WILL & Co. report business as remarkably good with them, considering the times.

Mr. J. C. VAUGHAN is still confined to the house but is much improved and is rapidly recovering strength.

MR. S. Y. HAINES passed through Chicago on his way to Mt. Clemens, Mich., to recuperate from an attack of his old enemy, rheumatism. He reports a good trade.

NEW YORK.—Since the much-needed rain came there has been a most gratifying improvement in the retail counter and local mail trade in all lines, and if present conditions hold out for a reasonable period the final verdict on the spring trade for 1896 will be much more favorable than anybody anticipated. Secretary Don's circular announcing the fourteenth annual meeting of the Seed Trade Association gives an interesting program of important subjects for consideration and discussion. The meeting will be held on June 9, 10 and 11 at the International Hotel, Niagara Falls, N. Y., where special rates of \$3.50 per day (American plan) for members have been secured.

Catalogues Received.

Jas. Vitch & Sons, Chelsea, London, England, stove and greenhouse plants. H. W. McGinnis, Owensboro, Ky., chrysanthemums; John Laing & Sons, Forest Hill, London, England, new and rare clivias; Detroit Flower Pot Mnty., Detroit, Mich., flower pots.

An Indivisible Contract.

Where a landscape architect and dealer in gardeners' materials submitted an estimate for labor and materials in laying out grounds, specifying the different items of labor, trees, vines, grass seed, etc., giving the price and sum of each item, and also recommended three tons of sheep manure for fertilizing the ground, which he could furnish at \$38 per ton, and his estimate, including the manure, was accepted, the appellate term of the supreme court of New York holds, *Manda vs. Sullivan County Club*, 38 N. Y. Supp. 55, that there was an indivisible contract for the whole work and materials, and that he could not sue separately for the manure without proof of the performance of the whole contract. J. L. R.

THE new directory contains a total of 9,528 names and addresses, of which 5,258 are florists who do a general local trade, having greenhouses and retailing the product of same, 797 are florists who grow for the wholesale market only, 645 are retail store florists who have no greenhouses, 52 are wholesale commission dealers in cut flowers, 1,524 are nurserymen, 543 combine the business of florist and nurseryman, 364 are seedsmen, 248 combine the business of florist and seedsmen, and 97 who combine all three branches of the business.

WHEN writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

Roman Hyacinths.

Our cable advices say, and we say, this is the time to buy. We can save you money if you will send us your order **at once**.

VAUGHAN'S SEED STORE,

CHICAGO: P. O. Box 688.

New York: 14 Barclay Street.

JOBBER OF FLORISTS' BULBS FOR 20 YEARS.

Are you
Sowing

PRIMULAS?

We are offering fresh seed of *PRIMULA FIMBRIATA* (Chinese Primrose) from the choicest English strains that cannot be excelled.

Alba Rubra, Alba Magnifica, Rubra Violacea, Chiswick Red, Meteor, Village Maid and Finest Mixed. PER HALF TRADE PACKAGE 50c; FULL TRADE PACKAGE \$1.

TUBEROSE EXCELSIOR PEARL, Select, 1st size bulbs, \$1.25 per 100; \$10.00 per 1000.

GLADIOLUS, FINE MIXED, \$1.00 per 100; \$8.50 per 1000.

CALADIUM ESCULENTUM, according to size, \$5.00, \$8.00, \$10.00, \$12.00 per 100.

WM. ELLIOTT & SONS, NEW YORK.

An Unusual Chance to
BUY LARGE PALMS.

Our palm house is crowded, and to make room we offer the following, very cheap for cash.

2 *LATANIA BORBONICA*, height from tub 8 feet, 20-inch tubs, 10 leaves on each.

1 *LATANIA BORBONICA*, height 8 feet, 10 very large leaves spreading 12 feet; 20-inch tub.

1 *PHOENIX RECLINATA*, height 9 feet, 22 leaves, spreading 16 feet; 23-inch tub.

2 *PHOENIX RECLINATA*, height 7 feet, 7 leaves; 12-inch pots.

1 *KENTIA FORSTERIANA*, height 6½ feet, 8 leaves, spreading 9 feet; 12-inch pot.

1 *KENTIA FORSTERIANA*, height 7 feet, 7 leaves; 14-inch pot.

1 *PANDANUS UTILIS*, height 7 feet, spreading 8 feet; 12-inch pot.

Also several more slightly smaller.

FOR PARTICULARS APPLY TO

H. F. A. LANGE,

WORCESTER, MASS.

JUNE OFFER. Per 100

1000 *Alternantheras*, red and yellow bft . . . \$2.00

1000 Single Scarlet *Geraniums*, 4 in. pots. . . 4.00

200 Double *Petunias*, fine 4.00

1000 *Verbenas* from seed. 2.00

Pansy Seed, ready June 15th, \$1.00 per ounce.

Cash with order, please.

JOS. H. CUNNINGHAM, Delaware, O.

TO EXCHANGE.

3000 Extra strong 2½-inch plants in bloom, of *Daisies Longfellow* and *Snowball*, at 2 cts. These are first-class in every respect. Will take small ferns, begonias, roses and general stock in exchange.

Address E. I. BRADLEY, Florist,
MURPHYSBORO, ILL.

PALM 
Seed. NOW ON HAND
FRESH CROPS.
per 100 per 1000
Areca Intescens \$1.25 \$10.00
Cocos Weddelliana 1.50 12.50

The import of this variety did not turn out very satisfactory; above prices are for selected seeds.
Latania borbonica 35 2.50
Livistona rotundifolia 2.75 25.00
All *Chamerops*, *Phoenix* and many others now in stock. A full list on application.

J. L. SCHILLER, Rutherford, N. J.

PRIMROSE
SEED.

This season's crop of our Chinese Primrose seed now ready for delivery. Our Primroses are greatly improved, and new varieties offered for the first time. We put up packets specially for florists. Single and double, fifteen best selling sorts.

400 SEEDS, PRICE \$1.00.

For separate vars. send for our Primrose Seed circular

HENRY S. RUPP & SONS, Shiremanstown, Pa.

CYCAS REVOLUTA.

We are prepared to sell you just what you want at reasonable rates.

Write for quotations.

WISCONSIN FLOWER EXCHANGE,
Box 87. MILWAUKEE, WIS.

Sweet Potato Plants.
YELLOW NANSEMOND.

Grown from select Jersey potatoes, \$2.00 per 1000. Write for prices on large lots.

Cash with order.

W. H. DRUSE & CO., Beardstown, Ill.

Mammoth Verbenas.

New, large-flowered, very fine quality.
Per Ounce, \$1.50.

**CHOICE FLOWER SEEDS
For Florists.**

Price List free on application.

HERRMANN'S SEED STORE,

413 E. 34TH STREET,

Near Long Island Ferry, **NEW YORK.**

**L. HARRISII BULBS
FOR JULY DELIVERY
AT SPECIAL PRICES
IF ORDERED NOW.
SEND FOR PRICES.**

Import Price List **DUTCH BULBS**
now ready. Free.

DAN'L B. LONG,

Jobbing Florist & Importer of Forcing Bulbs,
BUFFALO, N. Y.



SEEDLINGS OF
PHOENIX SYLVESTRIS and
LATANIA BORBNICA, from
flats 75c. per 100, postpaid.
SWORD FERN, large, \$3
per 100; \$15 per 1000.
Send for Special Trade
List and Catalogue.

REASONER BROS.,
ONEONTA, FLA.

C. H. JOOSTEN, Importer,
193 Greenwich Street, **NEW YORK.**

SPECIALTIES:

Bulbs, Azalea Indica, Palms, Roses,
and all kinds of Nursery and
Fruit Tree Stocks.

Catalogues on application.

**SEEDS ... FOR THE ...
Garden and Farm**

Vegetable and Flower Seeds. All the
newest and best varieties—quality un-
surpassed, Illustrated Catalogue **FREE.**

WEEBER & DON, Seed Merchants
and Growers,
114 Chambers St., New York City.

Plant Auction.

**SALES EVERY TUESDAY AND FRIDAY
THROUGHOUT THE SEASON.**

A. & F. RÖLKER, Auctioneers.
106 Liberty Street, **NEW YORK.**

**TUBEROUS
Begonia Bulbs.**

All colors separate.

\$2.00 per hundred. \$18.00 per thousand.

L. C. BOBBINK, Rutherford, N. J.
Branch of the Horticultural Co., Boskoop, Holland.

When you write to any of the ad-
vertisers in this paper please say that
you saw the advertisement in the
American Florist.

**LARGE-FLOWERING DOUBLE PRIMULA.**

	100 seeds
Double White	\$0.50
Double Striped	.50
Double Rose Pompon	.50
Double Red	.50
Double Mixed	150 seeds 50c.

Our Double Primulas bring a large percentage
of double flowers.

For other Flower Seeds see our "Book for Florists." Sent free to florists.

NEW YORK: VAUGHAN'S SEED STORE, CHICAGO:
14 Barclay St. 84-86 Randolph St.

When writing mention the American Florist.

NORTHROP, BRASLAN, GOODWIN CO.

Being **GROWERS** we are in a position to supply **Seeds of First-Class Quality** and
to make **specially low prices**. A trial will convince those who
have not yet found this out.

NORTHROP, BRASLAN, GOODWIN CO.

20 to 28 Hennepin Ave., MINNEAPOLIS, MINN.

55, 57 & 59 N. Jefferson St. CHICAGO.

When writing mention the American Florist.

**VAN ZANTEN BROTHERS,
Hillegom, Holland.**

Extra quality of **HIGH GRADE FORCING BULBS AT LOW PRICES.** We now book
orders for **Azalea Indica, Palms, etc.** The largest collection of sundry bulbs and
plants.

APPLY FOR WHOLESALE CATALOGUE.

P. VOS & CO., Sassenheim, Holland,

GROWERS OF

Hyacinths, Tulips, Crocuses, Narcissus, etc.

WE ARE ABLE TO QUOTE THE LOWEST PRICES FOR WHOLESALE DEALERS.

Mention American Florist.

**The Directory
For 1896
IS NOW READY.**
Price \$2.00.

**AMERICAN FLORIST CO.,
CHICAGO.**

**CHATER'S
PRIZE HOLLYHOCKS**

Our seed of this have been saved from the finest
and largest double flowers only and will produce
flower- extremely double and in the best, bright-
est and most distinct colors. Sow now.

Double Pure White, per oz \$1.00; 1/4 oz. 30c.
Lemon Yellow, Pink, Purple, Red, Deep Rose,
Salmon, Crimson, each per oz. \$1.50; 1/4 oz.
50c; trade pkt. 25c.

Chater's Hollyhocks, best double mixed, per oz.
\$1.50; 1/4 oz. 50c; trade pkt. 25c.

Double Hollyhocks, a new good mixture, per oz.
\$1.00; 1/4 oz. 30c.

CINERARIA Vaughan's International Mixture, trade
pkt. (1000 seeds) 50c; 3 pkts. \$1.25.

Cineraria Hybrida, large flowering mixed, trade
pkt. 25c.

Cineraria Hybrida, large flowering dwarf, mixed,
trade pkt. 25c.

CALCEOLARIA Hybrida, choicest mixture, flowers
beautifully spotted and marbled, brilliant
colors, trade pkt. 50c.

CHINESE PRIMROSES.

SINGLE LARGE-FLOWERING FRINGED VARIETIES.

	1000 seeds	250 seeds
White, Alba	\$1.50	\$0.50
Red, Rubra	1.50	.50
Chiswick Red, brilliant scarlet	1.75	.50
Mont Blanc, new large white		.50
Kermesina Splendens, a very deep rich red	1.75	.50
Alba Magnifica, flowers large, snow- white, exquisite form	1.70	.50
New Blue Primula	1.70	.50
Fringed Primula, many colors mixed	1.25	.25
Fern-Leaved Mixed	1.10	.35

VAUGHAN'S INTERNATIONAL MIXTURE.

This mixture contains besides all the above
named varieties, a number of other colors,
selected from the best strains of American, French,
English and German growers and we know it will
give entire satisfaction. Pkt. (350 seeds) 50c; 5 for \$2.

Latania Borbnica, 100 seeds 25c; 1000 seeds \$2.00.

ASPAKAGUS Plumosus Nanus, new seed just re-
ceived, \$1.50 per 100; \$3.60 per 250; \$12 per 1000.

Providence, R. I.

The cut flower market is at a standstill, but little, if anything, being done at present in that line. The demand for bedding stock, however, has been brisk and quite encouraging, both the retailers and the growers having all they can do at outdoor work.

A very interesting meeting was recently held by the Florists' and Gardeners' Club. Among other things the question of how to suppress the "street fakir" was taken up and discussed at some length. All agreed that the street fakir must go, but how is he to be banished? It is something to agree upon a point, and it is quite another thing to devise some means of carrying out the point in a satisfactory way. After many interesting opinions pro and con had been fully expressed and considered, it was finally agreed to appoint a committee of three, consisting of Mr. Wm. E. Chappell, Mr. Wm. B. Hazard and Mr. J. B. Canning, who are to consider the best means and ways, and report at the next meeting, to be held during the latter part of this month.

Mr. T. O'Connor's new greenhouses are receiving the finishing touches, Mr. O'Connor expecting to have them completed and in working order before long.

James Hocking of Central Falls is building a 75x20 carnation house.

Mr. J. Leach of Pawtucket is about to commence building an additional carnation house 175x25. One of his old 145x20 carnation houses will be somewhat overhauled and adapted for roses.

J. F. Parks & Co. have dispensed with their Westminster street store, intending to confine themselves to their new store and greenhouses on O'ney street.

Mr. Wm. E. Chappell's bedding stock is the finest he has had for years, while his carnations, considering the season of the year, are really worth seeing. He has one bed of Fisher, about 100 feet long, which yielded him at one crop 1,700 blooms. The average crop, however, is between a thousand and twelve hundred.

HOMO.

100,000 Strong Field-Grown ROSES

(Budded and own roots) for Fall delivery.

Try our new **BIOTA AUREA NANA**.Thousands of **Olea Fragrans**, **Azaleas**, **Camellias** and **Banana shrubs**.

Prices on application.

P. J. BERCKMANS, Augusta, Ga.

A FINE LOT OF

Meteors,
and Perles,

Now ready, out of 3 or 4-inch pots. Write for sample and prices to

GEO. A. KUHLE, Pekin, Ill.

5000 Roses for Sale. 5000

From 2½-in. pots. of the leading forcing varieties. Will sell at the lowest possible prices for cash

Also 10,000 Carnations for field planting, for sale or exchange. Address

IDA M. FRAVELL, Marion, Ind.

Do You Need Roses?

I have 25,000 good ones out of 2½-inch pots, and can give you prices that will open your eyes.

BRIDESMAIDS.....3 cts.
BRIDESMAIDS.....3 cts.
MERMETS.....3 cts.
PERLES.....4 cts.
METEORS.....4 cts.

This stock is in good shape. Cash with order.

CHAS. KOEPPEN, SEDALIA, MO.
Mention American Florist.

REINBERG BROS.,

Offer the Following Stock for Spring Planting:

ROSES in 2 1-2 inch Pots.

	Per 100	Per 1000		Per 100	Per 1000
AM. BEAUTIES.....	\$5.00	\$40.00	BRIDES.....	\$3.00	\$25.00
METEORS.....	3.00	25.00	BRIDESMAID.....	3.00	25.00
KAISERIN VICTORIA.....	4.00	35.00	C. TESTOUT.....	4.00	35.00
GOLDEN GATE.....	5.00		BELLE SIEBRECHT.....	4.00	35.00

*Orders for less than 50 of any one variety not accepted. READY FOR SHIPMENT.

Send orders to **51 Wabash Ave., CHICAGO, ILL.**

ROSES

BEAUTIES, MERMETS, CUSINS, TESTOUTS, NIPHETOS, PERLES, BRIDES, BRIDESMAIDS, METEORS, HOSTE, LA FRANCE, WOOTTON, WATTEYLLS, AUG. VICTORIA, 2 3 and 4-inch pot plants. Cash with order. Owing to number booked, they will be executed in rotation to assure prompt delivery. Order early.
Address for quotations, **VILLA LORRAINE ROSERIES, MADISON, NEW JERSEY.**

NEW ROSE

"Mrs. PIERPONT MORGAN"

Listen for a moment to what a voice from far off Springfield, Illinois, has to say about our young stock of this rose:

May 4, 1896.
"EDWIN LONSDALE, Chestnut Hill, (Station H), Philadelphia, Pa.

"DEAR SIR:—Box of 'Morgan' rose plants arrived Saturday in good shape. **Fine Plants.** I would like to know how you produce plants of such size in a two (2) inch pot?"

All I can say is that it is all owing to the natural vigor of the variety, and perhaps to some extent to the natural rose growing qualities of our soil.

We have a few more left of the same size. Order early or you may get left, for I do not know of a more profitable variety to grow for cut flowers than **MRS. PIERPONT MORGAN**.

Don't forget our address:

EDWIN LONSDALE, Station H,
Chestnut Hill, PHILADELPHIA, PA.

FOR SALE. FINE, HEALTHY ROSE STOCK.

Sure to give satisfaction; taken from stock that took First Prizes at Chicago Flower Show, 1891. Terms cash. Samples will be sent on application at the following prices:

	Per 100
500 LA FRANCE, 3-inch.....	\$5.50
570 WOOTTONS 3-inch.....	5.50
225 KAISERIN, 3-inch.....	5.50
618 PERLES, 3-inch.....	5.50
275 PERLES, 4-inch.....	7.00
690 SIEBRECHT, 2½ inch.....	10.00
700 BRIDES, 2½-inch.....	3.50
190 KAISERIN, 2½-inch.....	3.50
575 PERLES, 2½ inch.....	3.50

Have about 800 PALMS at a bargain, 1 to 10 inch.

POEHLMANN BROS.,
Cook County, MORTON GROVE, ILL.

BRIDESMAID and METEOR.

FRANK L. MOORE,
CHATHAM, NEW JERSEY.

Wanted.

From 3000 to 5000 American Beauty plants, from 2½-in. pots. Must be in first-class growing condition. Send sample with price per 1000, to

BASSETT & WASHBURN, Hinsdale, Ill.

ROSES.

BRIDES, METEORS, MERMETS and LA FRANCE, \$3.50 per 100; \$30.00 per 1000.
WOOTTONS, \$1 a 100; \$35 a 1000. 3 in. \$6 a 100.
Strong, healthy stock. 25 at 100, and 250 at 1000 rates. Cash with order.

R. F. TESSON,
West Forest Park, ST. LOUIS, MO.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Home of the Queen of Roses.

BELLE SIEBRECHT.

READY APRIL 1st.

Send in your orders early; the demand is great. The finest pink ROSE ever introduced.

2-inch pots.....	\$12.00 per 100
2-inch pots.....	55.00 per 500
2-inch pots.....	100.00 per 1000
3-inch pots.....	18.00 per 100

NOTICE:—All orders filled in strict rotation.

SIEBRECHT & WADLEY,
Rose Hill Nurseries, NEW ROCHELLE, N. Y.

Rogers Park Floral Co.

GOOD FIRST CLASS STOCK.

	In 2½-inch pots	per 101	per 1000
Am. Beauties.....	5 00	\$40 00	
C. Testout.....	4 00	35 00	
Kaiserin Victoria.....	4 00	35 00	
La France.....	4 00	35 00	
Belle Siebrecht.....	4 00	35 00	
Bridesmaids.....	3 01	25 00	
Brides.....	3 00	25 00	
Perles.....	4 00	35 00	
Meteors.....	3 00	25 00	
Meteors, 4 inch pots.....	5 00	40 00	

Orders for less than 100 not accepted
Ready for shipment now.

Send Orders to 41 Wabash Ave., Chicago.

Mention American Florist

ROSES. NOW READY.

First-Class Stock, 2½ inch pots.

	Per 100	Per 1000
PERLES.....	\$3.50	\$30.00
METEORS.....	3 00	25 00
BRIDES.....	3.00	25 00
BRIDESMAIDS.....	3 00	25 00

A. G. PRINCE & CO.,
88 Wabash Ave., CHICAGO.

ROSES.

PERLE and M. NIEL plants, from 2½-inch pots, \$1.00 per 100.
PERLE, SUNSET, MERMET, VICTORIA, MME. TESTOUT, ALBANY, M. NIEL, PINK and WHITE LA FRANCE, strong, healthy plants, from 3 inch pots, \$7.00 per 100. I will send sample to parties wishing to buy.
MOON VINE, \$3.00 per 100. Terms cash with order.

JOSEPH HEINL, Jacksonville, Ill.

ROSES.

Fine stock from 2½-inch pots, \$4.00 per 100.
ETOILE DE LYON, MAMAN COCHET, MRS. DEGRAU, BRIDE, MARIE GUILLOT, BRIDESMAID, MARY WASHINGTON, MME. HOSTE, MERMET, MME. F. KRUGER.

TERMS CASH

NATIONAL PLANT CO, Dayton, O.

WHEN writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

For DECORATION DAY.

PÆONIES AND HARRISII LILIES.

CAPE JESSAMINES, the finest we have ever had, specially cut for us with extra long stems.

And all other flowers in season as noted in the following price list, but flowers other than those above noted will undoubtedly be very scarce. Therefore we advise our customers to

PLACE ORDERS EARLY

if they wish to be certain of having them filled, as advance orders will be given the preference.

PRICES FOR DECORATION DAY, 1896.

ROSES—	P. & D. COST.	Per 100	Harrisii Lilies	P. & D. COST.	Per 100
Brides and Meteors.....		\$ 5 00 to \$ 6 00	Pæonies, FINE.....		3 00 to 5 00
Bridesmaids and Mermets.....		4 00 to 5 00	Sweet Peas.....		50 to 75
Perles.....		3 00 to 4 00	Smilax.....		15 00 to 18 00
Roses (our selection).....		3 00	Common Ferns.....	\$2 00 per 1000,	25
Carnations, white.....		2 00 to 2 50	Adiantums.....		60 to 75
“ colored.....		1 50 to 2 00	Corn Flowers.....		40
“ fancy.....		2 50 to 3 00	Daisies.....		40 to 60
Cape Jessamine.....		1 00 to 2 00			
“ FANCY.....		\$ 2 50 to \$ 3 00			

All flowers in season at lowest market price. Our store is open till 6:30 P. M. and on Sundays and Holidays till noon.

Full Line of Florists' Supplies and Wire Work a Specialty.

KENNICOTT BROS. CO.

88 Wabash Avenue,

CHICAGO.

SELECT LIST —OF— SECOND EARLY CHRYSANTHEMUMS

WHITE.	Per 100
IVORY.....	\$3 00
MRS. H. ROBINSON.....	6 00
J. H. TROY.....	5 00
YELLOW.	
H. G. SUNDERBRUCH.....	4 00
J. E. LAGER.....	5 00
MISS M. M. JOHNSON.....	6 00
PINK.	
LADY PLAYFAIR.....	3 00
MRS. M. G. HILL.....	3 00
NEMESIS.....	5 00
CRIMSON.	
WM. SEWARD.....	3 00
BRONZE.	
SUNRISE.....	5 00

Decide on your wants now, rather than wait till your competitors have secured all the best sorts.

NATHAN SMITH & SON,
Adrian, Mich.

Wm. Simpson.

CUT OCT. 15TH.

The Earliest Large CHRYSANTHEMUM.
Price to the Trade, \$17.50 per 100;
\$100.00 per 1000.

JOSEPH HEACOCK, Wyncote, Pa.

Bulbous Begonias.

LAING'S STRAIN. In separate colors.

Lilium Longiflorum, Tuberoses, Spiræas,
etc. Now on hand.

Ask for prices.

HULSEBOSCH BROS., Englewood, N. J.



JAPANESE LONGIFLORUMS.

Why not try some of these instead of the Bermuda stock? Cheaper, and no Harrisii mix. I can deliver by October 1st if I hear from you at once. Let me figure on your other wants in the bulb line.

G. C. WATSON, 43 North 10th Street, PHILADELPHIA, PA.

PINK IVORY,

(MISS AGNES L. DALSKOV.)

The invincible New Chrysanthemum, Strong, healthy plants from
2-inch pots \$2 00 per dozen; \$10 00 per hundred.

SPECIAL PRICES ON LARGER QUANTITIES.

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TOBACCO STEMS.

Pennsylvania, Michigan. Write for them to

Special prices, Ohio,
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NEW YORK CITY.**

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New Asparagus Sprengeri 30c. New Spiraea Anthony Waterer 25c. New Climbing Meteor Rose 30c. New Golden Rambler, Yellow Souper, New Crimson Rambler \$5 per 100. New Justicia, New Double Rndbeckia, New Cannas, Carex Japonica, Bougainvillea, Gladioli, Dbl. New Life Geranium, Geranium Agnes Kelway, best pink. Send for Catalogue of Novelties and Trade Bulbs at low prices. **A. BLANC & CO.,** Philadelphia, Pa. Japanese Jardinieres at very low prices. List free.

THE COTTAGE GARDENS,

C. W. WARD, Mgr.

QUEENS, L. I., N. Y.

WHOLESALE SPECIALTIES:

Carnations, Chrysanthemums,
Cannas, Geraniums.

WHEN writing to any of the advertisers on this page please mention the AMERICAN FLORIST.

Always mention the American Florist when writing to advertisers.

Tacoma, Wash.

Now since Easter is over the boys are taking considerable interest in the rose show, which is going to be held next month, the leading dailies of the town supporting their undertaking, and the exhibition is going to be a success. The meetings of the club are well attended and interesting.

Hinz, Bohannon, Schank and Nicodet, the leading landscape gardeners, are fully occupied since spring has made its appearance. Private places are well filled with bulbous stock this spring. Supt. E. R. Roberts and his force of men are busy clearing landslides at the park and recapturing the lost monkeys.

Henry Osterhandt returned from an extensive trip through California and Oregon, and has resumed charge of Nelson Bennett's place. LA FRANCE.

Brockton, Mass.

With the rise of temperature during the past week, there has been a marked rise in the sales of spring plants.

Copeland & Cooper's store on Main street has had many extensive improvements. Elaborate counters, handsome show cases, a mammoth ice box of the latest design and pattern, an artistic fountain, incandescent lights, etc., all combine to make the store most attractive.

Dr. C. E. Field of East Bridgewater, a suburb of Brockton, intends to build a 90x16 rose house.

Mr. E. H. Barrows reports a very satisfactory trade all along the line.

Homo.

Greenhouse Building.

Madison, N. J., Walter Reid, 600 running feet of rose houses; A. P. Smith, 350 running feet of rose houses; M. Tilden, 3 rose houses, 20x150 each; Robt. Schultz, 2 rose houses, 20x200 each; M. Hinch, one rose house 20x150; Frank Cheney, one rose house 20x175; Thos. Conroy, one rose house 20x150.

Chatham, N. J., Lum Bros., one rose house, 20x300; Jas. Leslie, one rose house, 20x150.

W. Hoboken, N. J., Ernst Asmus, two large houses.

Flathush, N. Y., Dailledouze Bros., rebuilding one house, 22x130.

Babylon, N. Y., E. B. Sutton, Jr., 450 running feet of commercial houses.

St. Johnsbury, Vt., C. F. Gibbs, one commercial house 100 feet long.

Berlin, Conn., A. L. Brandegee, one small commercial house.

Haverhill, Mass., Fred. A. Luce, one commercial house.

Burlington, Vt., W. H. Fuller, one greenhouse.

No. Beverly, Mass., J. F. Potter, one forcing house.

THE LAST CALL!!

IVORY AND DELLA FOX CARNATIONS, \$10.00 per 100; \$75.00 per 1000.

ROSE QUEEN, BRIDESMAID, ALASKA, PEACHBLOW, METEOR, LITTLE GEM, MINNIE COOK, \$5.00 per 100; \$40.00 per 1000.

WM. SCOTT, DAYBREAK, LIZZIE McCOWAN and PRES. CARFIELD, \$2.00 per 100; \$15.00 per 1000.

Our stock of the above is fine, and is now in sell, ready for the field.

Do not fail to try our new White Carnation Ivory. Send in your orders NOW.

GEO. HANCOCK & SON,
Grand Haven, Mich.

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FINE PLANTS FROM POTS. \$4.00 per 100; \$35.00 per 1000.

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" Variegated,

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FLORENCE VAUGHAN, dormant bulbs

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WESTERN SPRING, ILL.

VAUGHAN'S SEED STORE,

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HERR'S CARNATIONS.

LIZZIE MCGOWAN, WM. SCOTT, AURORA, LAGO, FRED DORNER and SWEETBRIER,

all at \$1.25 per 100, or \$10.00 per 1000.

STUART, BOUTON D'OR, and PEACHBLOW, \$2.00 per 100.

STORM KING, ALASKA, and ROSE QUEEN, at \$3.00 per 100, or \$25.00 per 1000.

ANNIE LONSDALE, at \$10.00 per 100; and THOMAS CARLEIDGE, one of the most profitable

carnations that grows, at \$4.50 per 100, or \$12.50 per 1000.

These are last of the season prices, and absolutely cash with the order, or C. O. D.

L. B. 496.

ALBERT M. HERR, LANCASTER, PA.

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CARNATIONS

Do not fail to order some of the BRIDESMAID CARNATION. The best pink to date. Plants from flats, \$3.00 per 100; \$30.00 per 1000.

We also have to offer the following varieties from flats. Sold out of all others. NO RUST.

	Per 100	Per 1000
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STORM KING.....	5.00	40.00
ROSE QUEEN.....	4.00	30.00
UNCLE JOHN.....	3.00	25.00
E. A. WOOD.....	3.00	25.00
DAYBREAK.....	3.00	25.00
WM. SCOTT.....	2.50	20.00

NEW CHRYSANTHEMUMS.

MRS. W. C. EGAN, }
TIPPECANOE, } 50c each; \$5 per doz.; \$35 per 100.
AMARANTH, }

New Begonia Lillian Harrington.

A cross between Alba and Rubra. Florets and sprays very large and of a deep rose color. The bronzes green foliage and large panicles of flowers make it very attractive and desirable. 2 1/2-inch pots, \$10.00 per 100.

Dwarf Scarlet Salvia Kobold.

Dwarf growth, only half the height of Splendens. Its early and free continuous blooming with its dwarf habit makes it one of the best bedding plants, and so much more attractive than the old tall growing Salvia Splendens now in use. 2-inch pots, \$4.00 per 100.

Pandanus Veitchii.

We still have a few plants from 8-inch pots, very fine and good color, at \$3.00 each.

Swainsona Galegifolia Alba.

A most desirable white cent flower, very free. 2-inch pots, at \$4.00 per 100.

Antirrhinum Majus Alba.

The best of the whites for winter forcing, as well as fine bedding plants. Fine stock. 2-inch pots, \$4.00 per 100.

F. DORNER & SONS CO.

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Daisies.

LARGE DOUBLE WHITE, Large

Clumps in bloom, \$2.00 per 100.

PANSIES ALL SOLD.

E. B. JENNINGS, L. B. 254, Southport, Conn.

Grower of the finest strains of Pansies.

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PRICE \$2.00.

AMERICAN FLORIST CO.

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SCOTT, ALBERTINI,

DAYBREAK, MCGOWAN.

Selected Cuttings, well rooted in sand and soil, delivery February 15th and later, \$2.00 per 100; \$15.00 per 1000.

Send your order at once, with cash, to get these figures. . . .

ALEX. McBRIDE,

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Orders solicited for ROOTED CUTTINGS.

KOHINOOR takes the lead.

Other Novelties of the Standard sorts at standard prices. All healthy and strong.

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The Pines. KENNETT SQUARE, Chester Co., PA.
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ROOTED CUTTINGS,

In large quantities, see list of varieties in FLORIST, March 21st. Send for price list.

H. WEBER & SONS, Oakland, Md.

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DO YOU WANT CARNATIONS?

If so, why not GROW the BEST?

50,000 ROOTED CUTTINGS, including Daybreak, Wm. Scott, Goldfinch, Lizzie Gilbert, Emily Pierson, Lizzie McGowan, Tidal Wave, S. Spray, Hinz's White, &c. Can do you justice in quality and prices. Write me before you buy. Address CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

CARNATIONS.

Rooted Cuttings in immense quantity, strong and well-rooted and particularly free from rust.

Daybreak, Wm. Scott, Thos. Cartledge, Tidal Wave \$2.00 per 100; \$15.00 per 1000

Lizzie McGowan, Silver Spray, Portia, \$1.50 per 100; \$12.00 per 1000

Lady Campbell Violets in any quantity, \$1.00 per 100; \$8.00 per 1000.

JOS. RENARD, Unionville, Chester Co., Pa.

Della Fox and Annie H. Lonsdale

ALL SOLD.

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Alocasia.....	4 00
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Fuchsias, general collection.....	2 00
Gladiolus.....	1 50
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	Per 100
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Ivy, all kinds.....	\$3 to 10 00
Jasminum, 3 kinds.....	5 00
Manettia, 2 and 3-inch pots.....	3 00
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Pandanus utilis, 2-inch pots.....	8 00
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Bromelia Lily.....	6 00
Sword Ferns.....	5 00
Parrot's Feather.....	\$3 to 5 00

	Per 100
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ROSES, Monthly and Tea.....	3 00
“ Hybrid Perpetual.....	2 50
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Vincas.....	\$4 to 8 00
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Carnations.....	\$3 to 6 00
Begonias, best assortment.....	\$2 to 5 00
Ferns. We grow Ferns for the market, and have several houses devoted to their growth.....	\$6 to 10 00
Palms and Decorative Plants. Our Palms are in fine condition, and we make better inducements than ever before.	
Bedding Stock of all kinds.	
Send for Our Complete Catalogue	

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BLUE PERFECTION.

As a cut flower, read what two of the oldest and best known houses of Philadelphia say:

MR. ALBERT KNAPPER:—This season we have worked up quite a little trade on Myosotis, and consider it a good cut flower for the retail florist, which I think will grow more in favor.

SAMUEL S. PENNOCK.

MR. ALBERT KNAPPER:—We take great pleasure in recommending a good article, and can say that your Myosotis is a fine, large, strong flower, of a grand color, and the best we have seen for a great while.

CHARLES FOX.

A GOOD INVESTMENT.

A GOOD KEEPER.

A GOOD SELLER.

EASILY HANDLED.

NO DISEASE.

ORDER NOW.

Has averaged at the wholesale market this winter from \$1.50 to \$2.00 per 100 flowers. Treatment similar to Violet Marie Louise or Carnations, from 40 to 50 degrees.

PLANTS, 2-in. pots, ready now, per 100, \$5.00.

ROOTED CUTTINGS, per 100, \$3; per 1000, \$25.

Cash with order please, or C. O. D.

ALBERT KNAPPER, Frankford, Phila., Pa.

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PRICE \$2.00.

American Florist Co.,

DRAWER 164

CHICAGO.

CLEMATIS.

Two years, all large flowering, choice named, leading kinds..... \$2.50 \$20 00
 Strong, heavy plants..... 35c each, 4.00 30 00
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 Daisies dbl. Eng. Snowcrest, Snowflake .50 1 00

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VINCA MAJOR VARIEGATA,

in 4 and 4½-inch pots.

FIRST SIZE..... \$10.00 per 100
 SECOND SIZE..... 8.00 per 100
 In 2-inch pots..... 2.00 per 100

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Berleau and Western Avenue, CHICAGO.

ROSES. ROSES. ROSES.

All the best New and Standard varieties for Winter forcing, or Summer blooming in the open ground, in Teas, H. Teas. Monthlies, Hybrid Perpetuals and Climbers. A grand stock of Mrs. P. Morgan now ready. Also

All the New and Choice **CHRYSANTHEMUMS** in fine condition; and in **CARNATIONS** an extra fine lot ready for immediate planting, in fine, strong, transplanted stock of nearly all the leading varieties.

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PROFITABLE BLOOMS. CUSHMAN'S GLADIOLUS BULBS

planted about **June 1st** throw fine spikes in **September** when flowers are scarce.

TRY A FEW.

Very fine mixed, \$1.00 per 100; \$8.00 per 1000. Cash please.

CUSHMAN GLADIOLUS CO., Euclid, O.

COLEUS! COLEUS! COLEUS!

VERSCHAFFELTIL GOLDEN GEM, and other fine varieties, per 100 50 cts; per 1000 \$1.50. Pot plants of above, \$2 00 per 100.

ALTERNANTHERA P. MAJOR, 2-inch, \$2 50 per 100.

ECHEVERIA S. GLAUCA, \$3.00 per 100.

CARNATIONS 2-inch pot plants, to close them out, \$2.00 per 100.

ROSCOE SAUNDERS, Aurora, Ill.

Vinca Major Variegata

in 2, 3 and 4-inch pots, CHEAP.

Write for prices.

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WANTED—PALMS.

10,000 to 15,000, 2 to 6-inch.

8,000 Smilax; 500 Asparagus plumosus; 1000 small Ferns for dishes. State lowest cash price. Will exchange 2000 (mildewed) Roses, 3-inch, even for Smilax or Carnation plants.

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and not only have the LARGEST and BEST collection in America, but guarantee our stock true to name. We are now filling orders for trial grounds. Every SEEDSMAN and FLORIST interested in DAHLIAS should send for our new descriptive Trade List.

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QUEEN CHARLOTTE, and other popular varieties. Quantities and prices on application.

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	Per 100
Begonias In variety, 2½-inch pot plants.....	\$2.50
Chrysanthemums, 2½-inch pot plants.....	2.50
Cyrtanthes, 2½-inch pots, standard vars.....	1.00
Marguerite Daisy, R. Cuttings.....	1.00
" " " " " " " " 2½-inch plants.....	2.50
Glechoma Hederacea, R. Cuttings.....	.30
Verbena, best strain.....	.75
Vinca Variegata, R. Cuttings.....	1.00
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If to be sent by mail add 10c per 100. Cash with order.	

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Plants, \$6.00 per dozen. Stock limited.
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The LARGEST STOCK west of New York.

GEO. WITTBOLD, 1708 N. Halsted St., CHICAGO.

CHEAP.

A NO. 1 STOCK. AS GOOD AS THE BEST.

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Special price for your wants on application.

"ROSE LEAF"

Extract of Tobacco
INSECTICIDE!

PRICE: 1 gallon can, \$1.50; 5 gallon can, \$5.00.
Applied either by vaporizing or by syringing. Try it.

LOUISVILLE SPIRIT CURED TOBACCO CO.,
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IMPROVED GLAZING!

GASSER'S ZINC JOINTS

Makes a roof Air and Water Tight. No lapping. No breakage from frost or medium sized hail. Saves fuel.
SEND FOR CIRCULAR.

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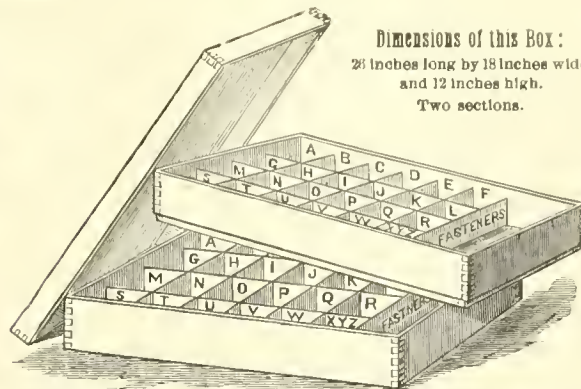
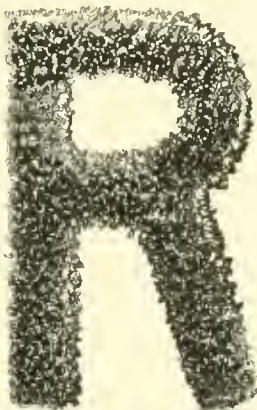
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GALAX LEAVES,

For Decorating and all Florists' Designs.

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Dimensions of this Box:
2½ inches long by 18 inches wide
and 12 inches high.
Two sections.

This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

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Manufacture the Best Letters in the Market.

Sizes 1½-in. and 2-in. 2.00 per 100. Patent fastener with each letter.

OUR NEW SCRIPT LETTER, \$4.00 per 100.

N. F. MCCARTHY, 13 GREEN ST.,
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We have a new FASTENER which we consider a decided success. Any customers having old style fasteners which they wish to exchange, can do so without additional cost by writing us.

These Letters are handled by all the Wholesalers Boston.

ESTABLISHED 1866.
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MANUFACTURED BY
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FOR FLORISTS.
Largest and finest stock in the United States. Write for prices to
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Reference: THORLEY. C. O. D.

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Manufacturers of

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New York.

JOHN C. MONINGER CO.

Manufacturers of

Clear Cypress
GREENHOUSE
MATERIAL,

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Challenge
Ventilating
Apparatus

Write for Illustrated Catalogue.

QUAKER CITY MACHINE WORKS,
Richmond, Ind.

Mention American Florist.

We have been Printing

for nurserymen, florists and seedsmen for about 18 years. We have the "know how," the cuts, the equipment—hence, superior results.

J. Horace McFarland Co.

Mount Pleasant Printery.

Harrisburg, Pa.

Sewed Them On.

Occasionally I find an amusing incident in the *FLORIST*, showing what is sometimes expected of the florist over his counters—all for 25 or 50 cents, which makes the tradesman say to himself, "It's often my experience, and who will be the next."

I will here relate a little incident which occurred in Concord, N. H., just before Christmas, and turns the tables the other way from what we generally find it.

A young lady stepped into a florist's establishment and called for a small piece of mistletoe to wear that afternoon. It was brought forward, and as the lady took it every leaf and berry dropped, leaving the purchaser with only a barren stick for her afternoon's decoration. "And the price, Mr. —?" "Oh! Well give me 50 cents." "How cheap! No, thank you, Mr. —, I don't want anything of the sort. If you have any mistletoe with leaves and berries on it I will take it, otherwise I will look elsewhere." "Well, Miss, I will get some leaves and berries for you, and you can sew them on when you get home. We have been sewing leaves and berries on ours all day" (producing some to verify his statement). The young lady refused to accept the latter offer, even at the greatly reduced price of 15 cents, and turned on her heel, saying "No, thank you, Mr. —, I don't wear kindling wood at any price," and walked out.

The florist said his mistletoe was badly shaken up in transportation, which caused the leaves and berries to drop. Now this is an actual occurrence and certainly shows what some dealers are willing to do by some of their customers. It certainly turns the ridiculous side of the table towards the florist this time, instead of the one who oftentimes seems to know very little of the cost to produce the flowers so much sought for on Christmas days. I feel free to say, it's a most deplorable way to live and expect to do business.

A SUBSCRIBER.

Running to Seed.

"Lisbeth," said Farmer Cornroe, laying aside his weekly paper, "is there any more fly leaves in the bible?"

"Yes."

"An' is all that pokeberry ink gone?"

"Not quite."

"Got er goose quill 'bout the house?"

"I think so; what are you goin' ter do?"

"Goin' to write to New Orleans fur a peck o' that new kind o' Mardi Gras seed that the papers is talkin' so much erbout; want ter try it in the lower bottom field for early pasture.—*Washington Times*."

Jones, McDuffee & Stratton, Plant Pots and Pedestals

of all grades, sizes and values, direct from the best Potteries of England, France, Germany, China Japan and the U. S.

WHOLESALE AND RETAIL.

120 Franklin St. cor. Federal, Boston, Mass.

FLOWER POTS.

We Manufacture all kinds of Flower Pots, etc.
Making a Specialty of

Florist Standard Pots

Send for price list and samples (which will be sent free), and we know you will give us your order.

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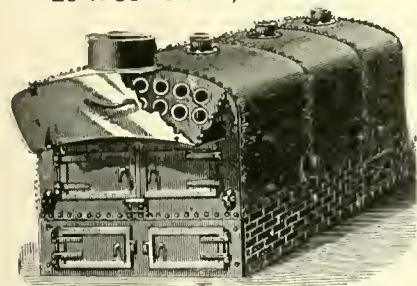
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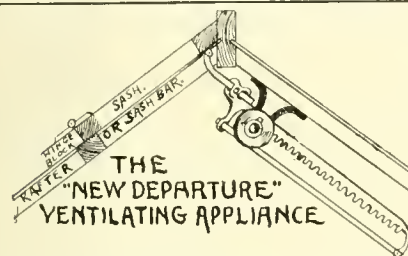
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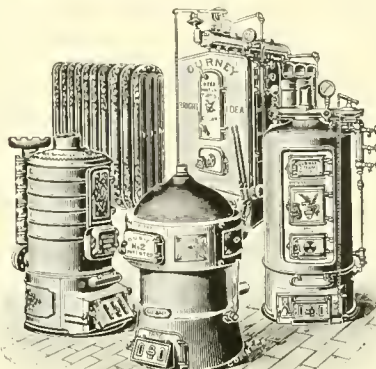


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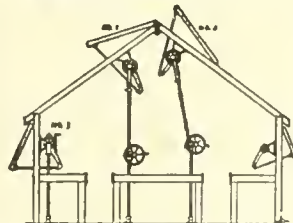
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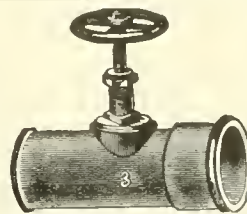
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San Francisco.

The statement in issue of May 2 that Mr. Chas. Mitten was in charge of the carnation houses at Menlo Park was an error. Mr. James Masson is the gentleman who has had entire charge of the carnations, and to whom the laurels are due.

J. U. S.

SHELBYVILLE, ILL.—A terrific hailstorm visited this region May 13. E. M. Harwood lost 680 lights of glass, some 24x 26 inches, the smaller sizes suffering most. Mrs. Martin lost between 700 and 800 lights, about half the area of glass. Some of the hail stones were as large as walnuts.

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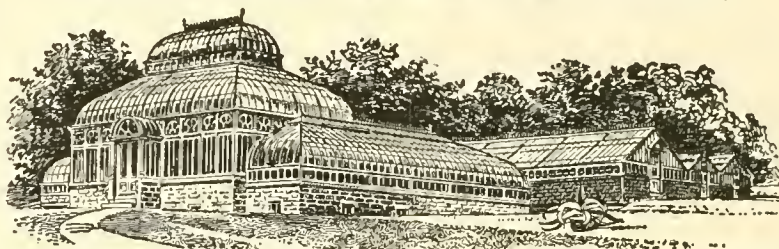
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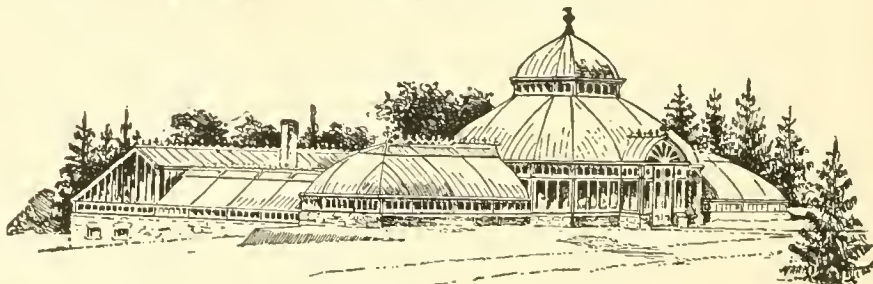
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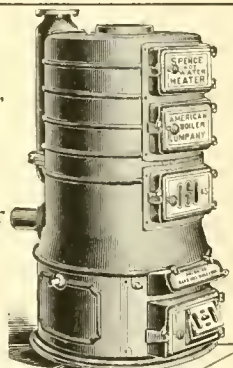
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Vol. XI.

CHICAGO AND NEW YORK, MAY 30, 1896.

No. 417

THE AMERICAN FLORIST

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ton, secretary; H. B. BEATTY, Oil City, Pa., treasurer.
The twelfth annual meeting will be held at Cleve-
land, O., August, 1896.

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Herbaceous Plant Notes.

Last year we had exceptionally and prolonged dry weather all summer, and this spring we are troubled with the same unfavorable conditions in our section, so that many herbaceous plants have not done their best, the flowers not develop- ing to their full size, and fading away be- fore their time is up unless they have been planted in a very favorable position, and in soil that retains the moisture for a long time. But after all there are many of the herbaceous plants which will do well in dry situations without the aid of hose or watering pot, and by referring to notes taken during last season I can safely recommend the following as being per- fectly reliable in dry weather under full exposure to the sun. Phlox subulata and P. amœna grew luxuriantly, the dwarf Saponaria ocyroides produced its pretty lively pink flowers nearly all summer, Helianthemum alpestre and H. mutabile were a mass of pink or white every morn- ing during the entire season, the petals falling off after midday. Silene alpestris with its starry pure white flowers did ex- ceedingly well, as also did the beautiful pink flowered Silene Schafta later on. The hardy evergreen candytufts, both early and late varieties, lasted well. Iberis Jucunda, described in a former number is surely a sun loving plant, and held out for a remarkably long time, also its near relative of taller growth the Ethionema grandiflorum, which produces a most brilliant effect with its large elongated flower heads of lively pink.

Coronilla ibérica and C. varia will cover the ground well, and invariably bloom profusely, Lychnis Lagascea, with its bright crimson flowers, anthemis and the linarias of various kinds delight in dry places. The long tap roots of the callirrhœs will find enough moisture three or more feet below to maintain a vigorous growth. Antennaria margari- tacea and A. tomentosa, the beautifully fringed and finely lacerated Dianthus arenarius and the Cheddar pink, D. cœsius, with its soft pink blossoms are well known to prefer such exposures, the dwarf veronicas, Astragalus hypoglot- tis, Ranunculus amplexicaulis, and R. speciosus have done admirably well. Most of the dwarf campanulas and the delphiniums require very little attention during dry weather, and really flower better on dry land than in moist places. Heuchera sanguinea, which has been nicknamed in this vicinity "crimson lily of the valley," flowers continually with- out any watering. Oenothera glauca and C. Fraserii along with others of that type do the same. The pretty prickly leaved Carlina acaulis really dislikes moisture, and keeps its dark glossy foliage in perfect health. Rose campion and Lychnis chaledonica in variety do not show the effect of dry weather at any time. Hyacinthus (Galtonia) candicans

endures the severest drouth, also Papaver nudicaule and P. orientalis. many of the columbines, thalictrums and the digitalis. Pœonias do fairly well after they are thoroughly established, and have taken a good hold in the soil, but newly planted clumps or patches make but poor growth, and produce small flowers when left with- out water. Daphne Cneorum requires no extra attention after the first year, and flowers rather more profusely in the fall months on the dry places than on moist ground, where the growth is not so short jointed and buds are not set so freely.

Aster bessarabicus and Scabiosa ochro- leuca produce their flowers with the same freedom here as on lower land. Platycodons, with their long fleshy roots, go deep down into the soil in search of moist- ure, and are just the plants for dry places. The German iris seem to depend entirely on the sap stored away in the thick fleshy corms. Hemerocallis of all sorts bloom and grow fine, rudbeckias and heliopsis may not grow exactly to their normal height, but flower very free, and the same may be said of the helianthus in variety. Yucca filamentosa is well known to flourish in dry places, although it does equally well where moisture is supplied.

Of the spiræas the only one that kept on growing in the dry weather on the high ground was S. filipendula, all the rest of the tribe lost their lower foliage and the plants presented a shrivelled ap- pearance. Achillea aurea laid close to the ground, but flowered very freely. Anem- one sylvestre, after flowering kept its dark shiny foliage throughout the sea- son, and the deep rooting A. japonica in its varieties, did as well there as on lower ground. Alyssum saxatile grew finely among a lot of Asclepias tuberosa. Dielytra eximia remained in bloom nearly all summer, and the pretty little Reseda glauca flowered continuously. Stellaria Holostea bloomed well but did not attain its full height. Hieraceum aurantiacum seems to delight in dry ground, and armerias merely show the effects of drouth by their shortened flower stems. Gillenia trifoliata, planted among Anemone syl- vestre was good, Stenactis (erigeron) speciosus held its foliage in good condi- tion and flowered for a long time. Sapo- naria officinalis and the more beautiful deep colored S. caucasica did not show any sign of suffering for want of moisture. Statice latifolia and others are fine plants on such dry borders, and the older clumps of Clematis recta not only flower very profusely but also retain every leaf throughout the season. No doubt the list of herbaceous plants which would flourish in dry and exposed borders might be greatly enlarged, and I do not claim in any way that the plants enumerated com- prise a complete list, but even with those mentioned above we are enabled to plant a very large sized border and give varia- tion and color enough at all seasons.

Very few of the above species and varieties really require to be planted on very dry ground, and would do equally well in lower and moist situations, but experience has proved to us that they will hold their own under adverse circumstances, while others would succumb sooner or later if the needed moisture was not applied in time. J. B. KELLER.

Rochester, N. Y.

Aquatics in Tubs.

Every florist and gardener, amateur or professional, is taking up this topic, either talking, writing or growing aquatics. The aquatic notes in No. 414, May 9 issue, by Jas. MacPherson were very opportune and instructive, but his selection of varieties suitable for planting in tubs showed a lack of judgment and familiarity with our up to date varieties of nymphæas, etc., which any grower would observe by referring to '96 catalogues of nurserymen and others who make a specialty in this line. Suitable species and varieties are abundant, but they are not all adapted for growing in tubs, unless the tubs are submerged in a tank. *Nelumbium speciosum* can be grown very well in a tub but it is necessary to feed the plant well during summer or the leaves will early turn a sickly yellowish green, as well as refuse to grow or flower. *N. luteum* is not so free flowering as *N. speciosum*, and not to be recommended. The white variety of *N. speciosum*, *N. alba grandiflora*, is very unsatisfactory, and does not flower as freely as *N. luteum*; is not as vigorous and is a shy flowering variety, and under most favorable conditions will not produce such strong tubers as any other variety.

Nymphaea alba in its best form is at home in a pond with a stiff muddy bottom; it is a strong grower and needs deep soil and two to three feet of water. *N. a. rosea* or rather *N. sphaerocarpa*, is another species, and entirely distinct, and one of the most unsatisfactory to grow under any conditions if its native habitat is omitted. My experience with it is something similar to *N. gigantea*, the Australian species, but I have yet to find the peculiar traits of the former to successfully handle it, and while we have several varieties that are in many ways superior I'm afraid *N. a. rosea* is likely to be left in the back ground. No form of *N. tuberosa* will submit to the limits of a half barrel; nothing less than a lake will satisfy their voracious appetite. Even then they will take possession of the banks if they are moist. There is but one form of *N. Marliacea rosea*, which is one of the best garden hybrids, *N. alba* being one of its parents, and like that variety is a strong vigorous plant. *N. elegans* is well adapted for tub culture, but has the objection of being neither blue or white, the yellowish white form, *N. gracilis*, is better. The purplish white and the blue is cultivated in Mr. MacPherson's state, and has been for several years.

As to nuphars these are well enough in the Delaware, let them stay there. In ponds where I've seen them growing they have every season been affected with a troublesome beetle, and their appearance is very similar to a bad case of elm tree beetles. I fear no African nymphæa will ever be naturalized in the United States though as an annual some may now claim that it is; other means will and have been adopted, but the object is yet to be grasped.

The following varieties of nymphæa I have grown satisfactorily in tubs, and can be recommended. *Nymphaea odorata*

minor and *N. pygmæa*, white; *N. mexicana*, rich yellow, this variety is far superior to *N. flava*, and blooms profusely. Plants in 3½-inch pots will produce flower. *N. Helviola*, yellow, a hybrid of the pygmæa class, and very floriferous. *N. rosacea*, pink, very similar to *N. odorata rosea*. *N. Laydekeri rosea*, one of the best reds in cultivation, and very distinct, the flowers open a blush pink, changing each day a deeper color, with rich orange stamens. *N. elegans*, mauve or bluish white, stamens yellow tipped light blue. Although the Zanzibar varieties are stronger growers they have points of merit that commend them; they are free flowering and strong growing plants, and if the outer leaves are damaged more or less by getting over the edges of the tubs they are soon replaced, and the plants continue flowering.

The best *nelumbiums* are *N. speciosum*, *N. roseum* and *N. striatum*. Other plants adapted for this mode of culture may be mentioned, such plants as *Limnanthemum nymphaeoides*, *N. indicum*, *N. trachyspermum*, *N. lacunosum*, *Eichhornia crassipes* major, *Limncharis Humboldtii*, *Aponogeton distachyon*, *Trapa natans*, *Brasenia peltata*, *salvinias*, *azollas* and *pistia*, floating plants. Taller plants for centers of tubs, *Cyperus papyrus*, *C. alternifolius*, *C. natalensis*, *Thalia dealbata*, *Acorus japonica* var., *scirpus* in variety, *sagittaria* in variety, *Calla palustris*, *Myriophyllum proserpinacoides*, a grand plant for draping tubs. Several varieties of submerged plants and others might yet be added. W. TRICKER.



Growing Jacqs. at Waban Rose Conservatories.

The illustration No. 1 shows a house of the old favorite rose Jacqueminot in good condition, the plants all ready for their winter's work. In order to get them in this condition it is necessary to begin to prepare them just after they have done flowering. They are then allowed to become a little dry at the roots until they begin to start into new growth, when they are slightly cut back to admit light and air, thoroughly watered and encouraged by judicious feeding to make their growth as quickly as possible. The advantage of this is a long season in which the wood may get perfectly ripened. Some of the canes shown in Fig. 1 were over fourteen feet in length when they had finished their growth. Such large wood must be thoroughly ripened, else blind shoots instead of flowers will be the result.

The mode of ripening must be according to circumstances; that is, whether your roof be of movable sash or stationary. The one shown is a tilting roof. The sashes are hung on centres and can be moved to any angle, an arrangement well adapted for keeping off the heavy fall rains and at the same time admitting plenty of air to the plants.

When the time for starting is again at hand we go through and prune out all weak and otherwise imperfect wood, leaving the well-ripened canes from four

to eight feet long, according to size and condition of wood, then begin at one end of the house and tie, bending all down to a level. The bending equalizes the flow of sap and causes the strong canes to break evenly their whole length, and being on a level all the young growths have an equal share of light. When all are tied down we fork in a generous coat of old manure with a sprinkling of bone flour and wood ashes, then give the bed a heavy coating of green cow manure. This is not spread at once over the bed in the usual manner, but is put in ridges about one foot apart. Put on in this way it is much easier to get the bed thoroughly watered than it would be were the green manure spread over the bed. When put in ridges it gradually washes into the soil, also admits the sunlight, warming the soil and encouraging quicker root action.

When the plants have started nicely (fig. 2) the manure is spread evenly all over the bed, and after a good watering to settle it down is then ready for the roots to take hold of, as they are by this time in active operation. Then with careful watering and other small details properly attended to we have in about fourteen weeks from time of starting, the results shown in fig. 3, and although fig. 4 is not shown here it will be found on the right side of the ledger. If it is not we are apt to do as a great many others do, place the blame on the salesmen or commission man.

ALEX. MONTGOMERY.

Natick, Mass.

Spring Flower Beds.

Year by year we see more and more use being made of tulips, hyacinths, narcissus and low herbs for spring flower beds. The city where I write is not a horticultural center in any sense, and is remarkable for nothing in its gardens except an unusual number of very fine specimen trees, many of which surpass any I have seen in America, yet, there are many thousands more of bulbs planted than were planted ten years ago. I planted the first considerable quantity about then, but now the State House grounds are planted and bulb beds are appearing all over the city. But too many bulbs are apt to prove tiresome, and people want more variety. That variety may be furnished in low growing herbaceous plants. Now, a good many florists may hesitate to recommend these to their customers; they know but little about them, and have no confidence in that little. Let me advise such to experiment with broad rows—much like matted strawberry rows, or with three foot or four foot round beds here and there. There is no form more effective and fitting than a round bed, you can put it anywhere, and it can be easily mown around. A few of the combinations which may be made are as follows, and the most of the plants may be planted somewhat earlier than the earliest obtainable tulips. Where tulips or other bulbs are also used, they should be planted in fours, with a low growing herbaceous plant in the center of the fours. This in Britain is called planting in intersection. Where low growing bulbs are used they often are best used as a broad border, and if intersected at all, it must be with something correspondingly low in growth. The object of this method is not so much a simultaneous display, as a successional one, and it is thus particularly well adapted to the vagaries and variations of our seasons.

If white hyacinths or tulips are intersected with varieties of *Phlox subulata*, or *P. amœna*, and edged with variegated

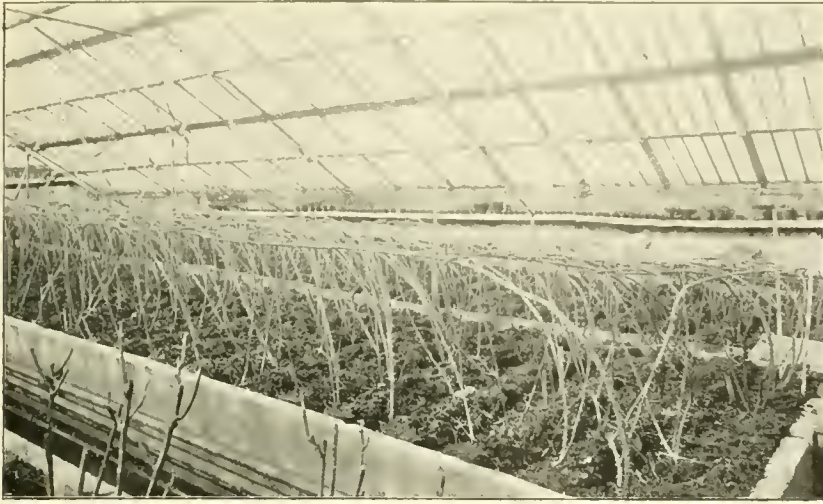


Fig. 1.

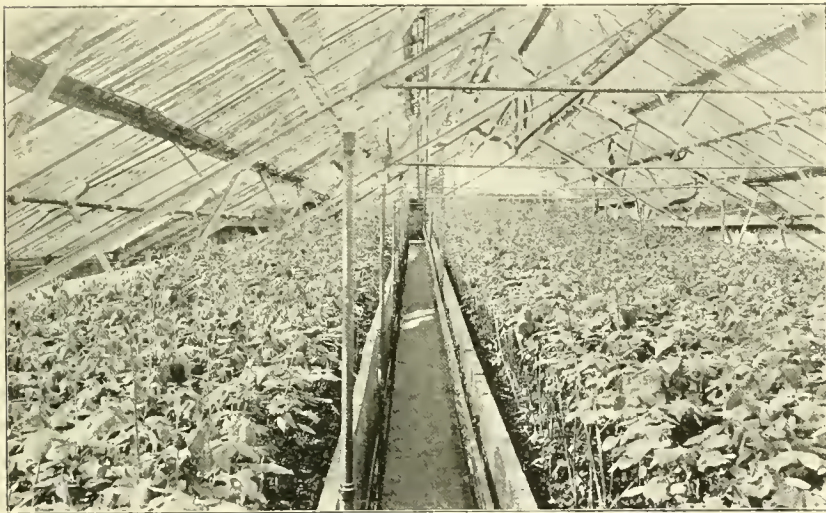


Fig. 2.



Fig. 3.

GROWING JACKS AT WABAN ROSE CONSERVATORIES.

Vinca minor, the tulips and vinca may or may not flower just together but whether they do or not will not matter in the least, such a bed will always look well, and with a proper selection of bulbs will often stand for several seasons. I don't think the plan of lifting every season to make room for summer bedders generally adapted to our conditions. My object is to give a few plants which the trade may supply to people who want a spring display, but little renewal, and not such a great deal of care. *Arabis alba* in intersection with scarlet or yellow or pink tulips, or with any color in hyacinths or narcissus, and edged with a broad edging of *Centaurea nigra variegata*, or variegated *Arabis lucida* or *alba*. The arabis will maybe die out in spots on some soils, so to keep a bed perfect you must keep a stock of compact plants to supply vacancies. Now it is a fact that some people will pay more for an arabis than a geranium or verbena, but these are people who know more about plants than a good many florists. *Adonis vernalis* planted alternately with *Anemone Pulsatilla* through the centre of a bed, and edged with the white Canadian violet studded thinly with white crocus, or striped crocus, will make a brave show in some parts of the country, and be fairly permanent too. *Caltha palustris*, studded rather thinly with *Anemone sylvestris*, and edged with *Erythronium americanum* may be tried in half shady places. *Iris pumila* in a foot or eighteen inch wide edging, may have the center of the bed filled with *Lamium album* and *Lamium maculatum* alternately, or you may fill the center with the white lamium, and stud it thinly with *Pulmonaria officinalis* or *Mertensia pulmonarioides*. Sometimes these will flower together or nearly together, but sometimes not. In any case the bed may be kept neat for a long time. *Sanguinaria canadensis* or the varieties of *Papaver nudicaule* with a broad edging of *Phlox subulata* or *Vinca minor* will also look very well. *Shortia galacifolia* may also be used.

The finer varieties of *Viola pedata*, or indeed any of its varieties cannot easily be overestimated for beauty, and in suitable positions they form a lovely mass of color. Naturally they grow on dry sandy hill sides, and in gardens the beds seem to do best on well drained slopes. This is different from the conditions liked by many other of the native violets, and may account for *V. pedata* being less commonly seen than others, at the north at least. The white phlox and scilla, chionodoxa, puschkinia, and other low bulbs may be used intersected as a border. Then after the violets die down you can sow poppies or eschscholtzia if you like.

Claytonia virginica likes shady moist woodland places, and may be edged or accompanied with any of the native violets which like similar situations. The *decentras* cannot be forgotten; five plants of *D. spectabilis*, edged with a broad band of *D. eximium* may be suggested. They die away early in this region of country, and the beds may be pricked over and sown to mignonette. *Bulbocodium vernum*, fritillarias in several species, hyacinths, tulips, muscari, galanthus and a great variety of narcissus may be used. *Doronicums*, *erysimum*, *Epigaea repens* (in azalea beds), *epimediums*, *Erythronium albidum*, etc., *Helleborus viride* vars., *Paeonia tenuifolia*, *Polemonium reptans*, *saxifraga* in several species, and several others humble in themselves, but making a brave show when mustered into masses, may be gotten together and tested. And get them in fair sized beds,

prove their adaptability to your conditions, keep them fairly well together (not scattered and lost), and infinite combinations will soon suggest themselves.

Trenton, N. J. JAMES MACPHERSON.



Chrysanthemum Notes.

Those intending to grow plants for sale next fall in 6 or 8-inch pots should now begin to start cuttings for that purpose, especially of those varieties that make slow growth, such as Ivory, W. H. Lincoln and Major Bonnaffon. Take as short, sturdy cuttings as can be obtained and avoid those that have become drawn. These should not be placed too closely in the cutting bench, for it is very desirable to get a short bushy plant, when placed on sale, and everything that would prevent them from spindling should be carefully done. Every fall sees large quantities of small plants placed upon the market, grown in 6-inch pots, that stand fully three feet high, the bottom stalks devoid of foliage and having a head of bloom backed by a few weak looking leaves, a veritable disgrace to the grower. We have often wondered when looking at plants of this description, whether it was caused by the neglect of the grower or ignorance, and have come to the conclusion that in some cases it was really the latter, for good plants are as easily grown as poor ones, and will bring in a better return for the space occupied. It is sometimes caused by an avaricious mind, not thinking that a good plant will easily sell for 75 cents or \$1, where a poor plant cannot be disposed of at 35 cents. Start in the beginning by giving these plants plenty of room.

Decoration Day gone by and the plant trade drawing toward a close, it is time to get the plants intended to produce fine bloom into the benches, and it will save a great deal of time if a little planning as regards the setting out be done before actually beginning the work. Make your arrangements so as to set the taller varieties at the north side of the house, so that the shorter ones will not be shaded. The catalogues now give the comparative heights that the different varieties attain, and it is quite an easy matter to map out the benches or houses so that when the plants are in full growth all will get their full share of sunlight.

The cuttings that have become rooted should be potted as soon as possible; don't leave them in the bench until they begin to grow, for they take hold in the soil with more difficulty, and the weak tops wilt and grow hard. Keep all the plants moving as rapidly as possible, and don't let them receive the slightest check. More chrysanthemums are spoiled during the rush of spring work than at any other time of the year.

ELIJAH A. WOOD.

Vinca Rosea.

I would like to introduce myself to Mr. Edwin Lonsdale as one of the old school florists who know and grow the Madagascar periwinkle, which he says will



A 10-INCH POT PLANT BEARING 180 FLOWERS.

CYCLAMENS IN CALIFORNIA.

cause a smile of derision. If so I pity the innocence of those who laugh with contempt at this plant. [It is evident that Mr. Menand misunderstood Mr. Lonsdale's statement. As we read the article, Mr. Lonsdale meant that a statement that the Madagascar periwinkle was a new plant would cause a smile of derision and not the plant itself.—ED.] I have laughed, smiled with heartfelt gratification and warm sympathy for the old things. Old things and old folks have a fellow feeling and I am old. I have yet the old plant with me which I had when I was seven or eight years old, which is eighty-one or eighty-two years ago.

Dear Mr. Lonsdale, your article has caused me to smile, to laugh, to wish to take your hand in mine without asking your permission, which trespass I beg you will excuse for the sake of our plant, our hobby. I have grown many hundreds for forty years or thereabouts, but never from seed, always from cuttings. Occasionally I have picked up some self-sown seedlings. You wonder the plant is not cultivated. I believe you. Then you believe that old good common sense has not departed yet. Yours fraternally,

L. MENAND.

Hot Water Circulation.

"Subscriber" asks how many 2-inch return pipes it is advisable to put on each 2-inch flow. To get the best results it should never have more than two.

To heat a house 100x25 with 2-inch pipe to maintain a temperature of 45° in zero weather in his section of the country, I should advise at least 12 rows of pipes if the boiler power is ample to maintain a good body of hot water. This ought to be sufficient, but I would also advise carrying the pipes across the end farthest from the boiler if a door is located in that end, then carry them to the door posts, using return bends, and I should certainly prefer to a 4 inch main for flow and return across the end nearest the boiler either on

the outside or just inside of the house; if in the latter place them where they can be buried somewhat to keep down the extra heat. From this 4-inch flow pipe carry out six 2-inch flows with reducing tees, allowing each flow to go to the extreme end of the house and across to the door, and return to main 4-inch return, thence direct to boiler, and by placing an angle valve on say three of the flows the heat is very easily controlled in all kinds of weather. Considerable coal can also be saved by doing this, as a much less volume of water has to be heated in mild weather. At the farthest end from the boiler, which should be the highest point in the pipes, a small air cock should be tapped into each return bend, or else an expansion tank should be connected with the pipes of each side of the house at their highest point, to allow all air to escape freely. If the pipes can be distributed somewhat over the body of the house, say four on each side and four through the middle, it will give a much more even temperature all through. In that case they can all be carried on the same grade, which is much preferable to carrying one above the other.

"Subscriber" does not mention how high the house is, or whether there is any glass on the sides, so I have based my calculations on a house built without any glass on the sides, and for a house of ordinary height for the width given. If there is more than 28 or 29 feet of glass surface in its width then it would be better to add one more pipe to above calculation to be on the safe side. JOHN N. MAY.

Cyclamens in California.

The accompanying engravings are from photograph sent us by Mr. Fred Rafferty, proprietor of the Hermosa Gardens, Santa Ana, Cal., and show what he is doing with the cyclamen.

He finds that the cyclamen is very easily grown planted out in the open ground and that they will stand some



POT PLANTS IN A CANVAS HOUSE.



PLANTED OUT UNDER A LATH FRAME.

CYCLAMENS IN CALIFORNIA.

frost without injury. But of course he is in California.

Boston.

The past week has been dull beyond precedent for the season. This is the general testimony, especially from the manufacturing towns the complaint is heard, where the effect of long-continued dull times and reduced wages has been severely felt in all lines. In these communities the people spend their money liberally when they have it, the local florists getting their share of the distribution, and they in their turn buying supplies freely in the wholesale centers. The more intelligent wage-earners are good flower and plant buyers and as a class are of much more value to the florist than the ultra-fashionable element is. Plant trade has not materialized as expected. This may be in part due to the extremely dry weather that has prevailed during the spring months and which has made planting a very discouraging pastime.

The season has been a most unfortunate one in another respect. Many of the shrubs and herbaceous plants ordinarily depended upon to make a gay spring display in the gardens are this year flowerless, and fortunate are those that are even alive; when such hardy subjects as mount-

ain ash and forsythias have their bloom completely destroyed little may be expected of rhododendrons and spiræas. Some growers assert that hardy phloxes are killed outright in many places. Shrubs and plants that have bloomed have been inferior on account of lack of rain. The show of lilacs at the Arnold Arboretum, the finest display in the ground and one which was looked forward to with great expectations has fallen short of its promise, the flowers although abundant being stunted and spiritless looking.

The special attraction at Horticultural Hall on Saturday, May 23, was a group of splendid bloomed *Cattleya Mossiæ* and *miltonias* shown by Wm. Thatcher, gardener to John L. Gardner. He received a silver medal for the display. It was prize day for the pæonies but none were staged, probably because they are not yet in bloom. R. and J. Farquhar & Co. showed a bloom of the new canna *Italia*. It was the first flower from a small plant, consequently not a fair specimen from which to form an opinion of the merits of this variety, but its flimsiness of texture was unfavorably commented upon by many. It received a complimentary notice. Messrs. Farquhar also exhibited pretty flowering plants of that grand acquisition, spiræa Anthony Waterer and

of Cupid sweet pea. Complimentary notice was given *Cypripedium arietinum*, a rare native collected at Burlington, Vermont. Jas. Comley and C. Blomberg made their customary promiscuous display.

On Friday evening, May 22, a delegation from the Boston Club, consisting of Pres. Laurence Cotter, P. Welch, W. Ewell and W. J. Stewart visited Providence and were most enthusiastically welcomed and hospitably entertained by the Providence Florists' and Gardeners' Club, which met on that evening. The idea of inviting the Society of American Florists to hold its convention in that city in 1897 has taken firm hold of the Providence fraternity. They are in every way well equipped to carry out such an enterprise, and there is not the least doubt that should the convention go there in 1897 the attendance and enthusiasm will come very close to the high-water mark.

M. H. Walsh sends us from Wood's Holl a bloom from a seedling rose, the result of Testout fertilized with *La France*. The bloom comes from a plant in 4-inch pot from seed sown Feb'y 7, 1896. The flower is full, well-shaped, clear soft pink in color and fragrant.

The Household publishes a story which it credits to the *Boston Transcript*, about plants in a trance. The plants "in a trance" are the dried and painted palms put up by the "prepared plant" manufacturers. The *Transcript* after its many years' service as the recognized organ of the Mass. Horticultural Society, is old enough to know better.

John G. Barker has been dismissed from the position of superintendent of Forest Hill's Cemetery and Wm. J. Hargraves succeeds him.

Toronto.

The Gardeners' and Florists' Association's regular meeting was well attended last Tuesday and although there was not much business on hand an interesting and enjoyable two hours were put in. Mr. Geo. Reeves had a large bunch of his seedling cannas on the table, some of them very good, especially one, a cardinal red. Manton Bros. brought a bunch of very fine *Azalea mollis* grown out doors, it is perfectly hardy with them. Mr. Ewing brought some branches of the double pink hawthorn, of which he has a large old tree in the Normal School grounds, and a bunch of *Aquilegia cœrulea*, a beautiful variety with pale blue petals and pure white cup.

Mr. C. Tidy read a lecture delivered in the east end of London by Col. Halford Thompson on the virtues of Jadoo fibre as a substitute for soil for pot plants. There was a lively discussion on it, and the conclusion reached was that though it might not come much into use for commercial purposes it would be a good thing in cities where suitable potting soil is difficult if not impossible to get by amateurs growing a few house plants.

The following resolution was also unanimously passed, viz: "That this Association views with regret the stand taken by the Mayor with regard to the department of parks and gardens and that as a body of practical men it can assert with confidence that the department is managed as efficiently and more economically than any similar department on this continent and that it hopes to see the commissioner strengthened in his endeavors to bring the parks up to the standard he has in view."

The plant trade has been very good during the last week but the big rush will

be during the two coming weeks when bedding out will become general and it seems likely that a great deal more of it will be done this year than last year. More window and veranda boxes, flower stands, etc., will also be used. A great trade is being done at the market this year, many people (as in Buffalo) imagining that they get plants cheaper there. Amongst the cut flowers I notice large quantities of *Gladiolus Colvillei*, much more than in former years.

The long wanted rain has at last come and though it came on the great Canadian spring holiday, the Queen's birthday, it was very welcome. Grass was getting a very scorched appearance where the hose has not been used. E.

Carter's *Asparagus Plumosus Nanus*.

This plant was grown by Mr. E. H. Carter of Toronto, Ont. He has had it in his possession three years, and although every means were taken to induce it to climb it has never shown the least inclination to do so. It was awarded a certificate of merit at the March meeting of the Toronto Gardeners' and Florists' Association, where it was regarded as a decided acquisition.

Philadelphia.

Although the transient trade seems to have almost entirely disappeared, there are still a few weddings, commencements and funerals, the orders for which prevent things from coming to a complete standstill. Roses and carnations are very abundant, and job-lot prices prevail. Beauties are in fair demand, the top price being \$2 per dozen, with \$1.50 for most of the stock, and from these figures they go down according to grade to \$2 per hundred. The best price for teas is \$4, but very few bring this figure, \$2 to \$3 being the price for the bulk of the stock. Carnations are still in fine condition, but there is not demand for half the stock sent in, and the finest flowers go begging at from 50 to 75 cents per hundred. Outside *Jacqs* are peddled round in great basketfuls at \$2 per hundred, but do not sell well. *Meteors* have the call over them, as they keep much better and are to be had for about the same figure. Sweet peas are plentiful and in fairly good demand at 50 cents per hundred. *Pæonies* are carried around by people in the trade and out of it; from \$2 to \$4 per hundred is the price. They are showy and effective, and find a fairly good market.

Mr. Carre of Mantua, N. J., is sending in a fine lot of cornflower, both blue and white. He has a large bed planted several years ago, and it does splendidly, being scarcely any trouble, but during the early spring producing a lot of flowers that he finds a good demand for at from 50 cents to \$1 per hundred, and all sold through a commission house at that.

Smilax seems to be a bit scarce; 20 cents is asked for quite mean stock. Reid is getting some of good quality from Ohio, which readily brings 25 cents.

Pot roses have not sold well this season for some reason, and it would seem as if the growers would have a lot left over. Some blame it on the Holland stock sold in the large department stores at ruinous prices. Quite a large stock of pot roses at Wanamaker's in 6 to 8-inch pots were offered at 50 cents, and in a few days were in charge of a girl in the middle of a side aisle at half price for your pick.

The meeting of the Florists' Club June 2 should be an interesting one. Mr. Berry



CARTER'S ASPARAGUS PLUMOSUS NANUS.

will read his paper on forestry, the full details of the shad dinner will be given, and matters pertaining to the convention will no doubt also have consideration.

The shad dinner it has finally been decided is to be held at Wissinoming at the grounds of the Gun Club on next Wednesday, June 3, members and their invited guests to take the 1:45 p.m. train from Broad street or go by the 5th and 6th street trolley cars. The afternoon will be taken up by a number of interesting events—shooting by the Gun Club, running, baseball, etc., etc. Dinner will be ready 5 p. m. sharp. There will be music, and if the weather is fine a good time generally may be looked for.

W. K. Harris is on the sick list, having been confined to his bed for several days. He is somewhat better at this writing and hopes to be about soon.

Myers & Co. of this city have a new greenhouse appliance that bids fair to be a great benefit to the trade. It consists of an adjustable clamp T and L malleable iron fitting for one-inch pipe, which can be slipped on a post or purlin and clamped in the desired position. The same fitting has an attachment cast to it to which when used in bench construction the front board or table edge can be screwed, thus making everything strong and rigid. It will soon be in the market, and should be seen by intending builders.

At the monthly shoot of the Gun Club last Wednesday the following scores out of a possible 50 were made: Geo. Craig 27, Chas. D. Ball 44, Thos. Cartledge 32, Ed. Reid 35, Geo. Anderson 42, J. Burton 42, A. B. Cartledge 34. Chas. D. Ball won the medal. K.

New York.

More than usual interest is being taken in the proposed exhibition at the Newsboy's Home, which is to be given jointly by the New York Florists' Club and the New York Gardeners' Society on Saturday, June 20. Many of the large growers and dealers in plants, seeds, etc., have agreed to donate from their surplus stock to be given away to the poor children of the city, in whose interest the exhibition is largely planned. Admission will be free to the public.

Business in the city continues dull,

steamer departures furnishing the only variation from the prevailing monotony. Even Decoration Day will scarcely make a ripple on the surface if indications three days in advance count for anything. There is a noticeable decrease in quantity of roses and carnations coming in, which is a favorable sign. Outdoor lily of the valley and other spring flowers that have glutted the market during the past two weeks have come to an end, but garden roses will show up in a few days and make their share of trouble. The quality of the roses being received at present averages poor.

C. W. Mathison, formerly at 673 Sixth avenue, but for the last two years located at 40 East 43d street, died on Friday last of cancer of the stomach. The funeral was held on May 25 from St. Agnes Church.

A. W. Brabant, dealer in florists' fancy pins at 54 Warren street, made an assignment without preferences on May 20.

A Barclay street plant vendor offers *latanias* labeled in large letters "Shamrock," but they don't seem to sell any better on that account.

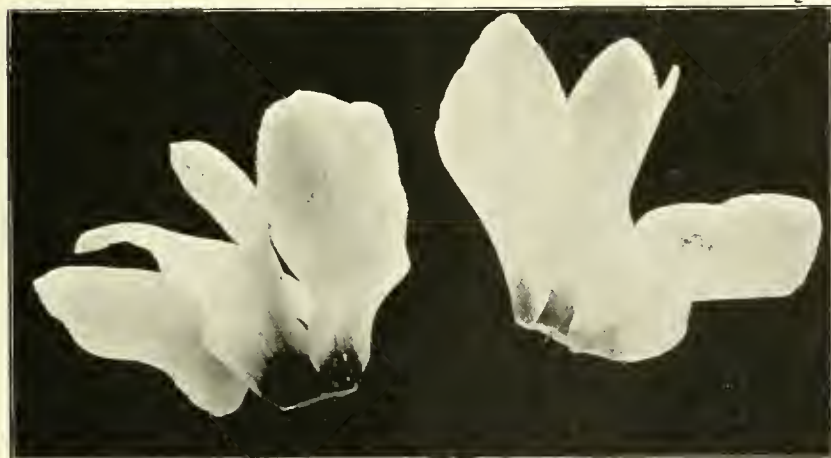
Mr. and Mrs. Thos. Young, Jr., will sail for England on the *Etruria* on June 13.

Visiting New York: T. J. Totten, Saratoga Springs; Sam Goldring and H. G. Ayres, Albany; Wm. Griffin, Lenox, Mass.

Pittsburg.

Those florists who are in the plant branch of the trade have been an extremely busy set this week, the continued fine weather, together with the approach of Memorial Day, bringing out purchasers in large numbers, and an immense quantity of plants have been disposed of at fair prices. The demand has been so great that when Saturday night is at hand a great many growers will have no stock on hand, nothing to show but empty houses and frames. There is no improvement noticeable in the cut flower department, everything in that line, as several have expressed it, being abominably dull.

James Dell, 508 Smithfield street, has completed one of the largest, if not the largest, decorations ever put up here. The largest department store here cele-



SOME INDIVIDUAL BLOOMS.
CYCLAMENS IN CALIFORNIA.

brated this week the 25th anniversary of their commencing business, and concluded to have a very unique decoration in honor of that event, and incidentally to be in readiness for the National Sangerfest during week of June 8. The contract was awarded to Mr. Dell, the material to be used being laurel wreathing and pine, the entire fronts of the building on Fifth avenue and Smithfield street being completely covered with pine. To give an idea of the extent of the job I need only mention five carloads of pine and over 6,000 yards

wreathing were required; to wire the building ready for the pine took six days, with six days more to put it on, twenty men being employed on this part each day. The interior decoration of the stores, requiring the services of 15 men, was completed in one day, the twelve immense pillars on first floor were entirely covered or massed, forming only one portion of the decoration. Great credit is due W. B. McCrea, Mr. Dell's assistant, who was personally in charge of the work, and who completed

it without an accident, the business of the establishment being conducted as usual during the whole time.

James Bros., near Wilkiesburg, have had a very successful spring and are well satisfied, having disposed of their whole stock of bedding plants. Their change in location has proved a judicious one, and to judge by the plants offered for sale, the new houses are a success.

Mrs. E. Williams, 1713 Carson street, South Side, has also had a remarkably good trade in plants, even with increased greenhouse facilities, having sold all of the stock grown, with the quality fully equal to any in the market. REGIA.

Buffalo.

Decoration Day is close here and in cheap flowers there is going to be a scarcity. Roses and carnations don't fill the bill entirely on this date. Plant trade is in full swing and no cold weather to check it. There are several hundred thousand geraniums grown round this city and they appear to be all wanted, but several growers have too many without bloom, and the average buyer, in fact the great majority, want to see some flower on when their beds are planted out. Palmer & Son's window was been full of very fine Daybreak carnations of late, fine for this season of the year.

The very latest bit of news of a startling nature is that our worthy Delaware avenue florist, C. F. Christenson, has sold out his aristocratic place. He does not give possession till a year from next July. The price received was enough to make any florist smile, but I am not at liberty to say just what. It is one of the finest residence lots on that beautiful avenue.

On Wednesday last a few Buffalo men journeyed to Wilkesbarre to meet a few Philadelphia shooters. We arrived at an awful hour, 2-30 a. m., but with all that there was a reception committee to meet us at the depot, G. Fancourt, chairman, ably assisted by John Burton and Mr. Lamb of Philadelphia. Even at that unseemly hour there arose an unseemly wrangle between Messrs. Fancourt, Cowell, Burton and Scott about where the sun rose. It was rising sure enough, but as G. F. said, the sun rose in the north in his town. It took the night clerk to decide that it was after all the east. A fine old-fashioned house is the Wyoming Valley Hotel, with the broad Susquehanna at its front door. The shooting was done on the spacious domain of Benj. Dorrance. In our rear and very close were the fine houses of the above named gentlemen, and facing the large establishment of Mr. Fancourt. The noon hour was duly respected by an adjournment to the roomy shed of Mr. Dorrance, where edibles, drinkables and stories went round. The shooting lasted from 10 a. m. to 5 p. m. The Philadelphia team was George Anderson, John Burton, B. Cartledge and C. D. Ball. Wilkesbarre, B. Dorrance, G. Fancourt and two local shots. Buffalo team was Philip Scott, J. H. Rehstock, W. Scott and Prof. Cowell (no good). Philadelphia took both handsome medals, one for the team shoot and the other went to that worthy young man, Mr. Cartledge, for the highest. Aggregate of the day, 99 out of 130 targets. The local men had invited half a dozen local gentlemen to join in the shoot, and if they were not florists they were fine shots and fine men. Mr. Dorrance did not show up in his usual form with the gun; who can be host and shoot too? George Fancourt was most considerate to the visitors and did not display his skill, it was too easy; he wanted double birds, unknown angles.

At the conclusion of the shoot we all moved to the fine residence of Mr. Dorrance, where on his broad veranda an appetising lunch was indulged in. It is needless to say everybody enjoyed themselves very much. Several, including the writer, declared their next honeymoon would be spent in the Wyoming Valley, made famous by Thomas Campbell's immortal Gertrude, as well as the immense coal breakers. If we can't shoot we can appreciate hospitality, and we hope this won't be the last time we shall visit Wilkes-barre.

I almost forgot to say that Mr. Lamb did finely as trap puller. Mr. Cowell was an impartial judge. Mr. Long arrived too late to be good for anything except dinner, and we were all sorry to hear that sickness prevented Mr. W. K. Harris from being with us. W. S.

Swainsona.

The accompanying engraving is from a photograph of a bed of swainsona in one of Mr. J. C. Rennison's greenhouses, Sioux City, Ia. The plants are in a solid bed, were planted September, 1895, and the photograph was taken April 1, 1896.

Mr. Rennison finds the swainsona is one of the more useful and profitable flowers he grows. With him it grows easily and blooms with remarkable freedom and continuously.

Chicago.

The storm that did so much damage in the suburban town to the west seems to have fortunately missed the florists. In response to a note Mr. E. Buettner, Park Ridge, writes: "I am happy to say that the recent cyclone passed us within a thousand yards but did no damage of any account to my place and I have not heard of any other florist in this vicinity being damaged. Had the storm struck us as it did a little west of us I would certainly be out of business to-day. It left nothing standing in its path. The air was thick with houses, barns, trees, sidewalks, horses, cows, fowls, furniture, etc., for a while, and the prairie is strewn with debris." Some little damage was done at Reinberg Bros' place, where an unfinished house was injured, and a few others lost a little glass, but altogether the florists in this vicinity has reason to be very thankful for their escape.

Decoration Day trade proved unexpectedly good. Outside orders were large, and though there were some complaints of city trade it seems to have been better than at first expected. First-class roses were not over plentiful, there being a great many small and mildewed flowers, while the demand was excellent. The usual price was \$4 to \$5, some extra select going for \$6; fine Kaiserin were \$5 to \$6, while extra Testouts went at \$5 to \$7. Naturally there was a fine demand for white stock, and extra white carnations went up to \$2 and \$3. The lowest for good carnations was \$1.50, higher grades \$2 and \$2.50.

The outdoor stock showed up better than was expected. Paeonies were plentiful at much the same prices as last week, the highest being fine "drop whites" at 75 cents a dozen. Irises were still plentiful; there were a few tulips, and in cheapest stock field daisies, clematis, and in fact anything that bore a flower. Cape jasmine was overloaded, like last year; it was quoted at \$1 to \$2, and some of the fine long-stemmed blooms were really worth the latter figure, but there was too much of it. Most of the out of town buy-



BED OF SWAINSONA AT J. C. RENNISON'S, SIOUX CITY, IOWA.

ers showed a disposition to order more freely than last year.

The new hybrid canna Italia is in bloom at J. C. Vaughan's Western Springs greenhouses. In size, richness of color and distinctive shape the flower is all that we could expect; the one weakness is a flimsiness of texture which it probably inherits from flaccida. Whether it would stand the whipping winds of Chicago cannot yet be judged, but surely it will be magnificent as a decorative plant under glass, and will be fine for hybridizing. But this one season will hardly be a fair test of its capabilities outside.

Visiting Chicago: J. L. Schiller, New York; Fred Haupt, Louisville, Ky.; Chas. Treanor, South Bend, Ind.

St. Louis.

Stock is still plentiful and the cut flower trade is dull; had it not been for a few large size funeral orders trade would have been at a standstill, and such a week of wet weather has not been experienced for many months, if not years. It rained all day and all night without any let-up. Thursday, the 21st, at 6 p.m., a great hail storm visited St. Louis, and did great damage in this vicinity to florists; greenhouses by the score were damaged. C. Young & Sons Co. were the greatest sufferers, their loss was 30,729 square feet of glass, 20,608 double thick and 10,121 single thick. Their loss to plants was also great.

R. F. Tesson of West Forest Park, lost 6,000 feet; C. C. Sanders, 45 per cent; Michell Plant and Bulb Co. 65 per cent; Alex Waldhart's loss is about \$70; Mrs. M. Eggeling, 65 per cent; John Hullahan & Richard Frow lost 95 per cent. J. F. Windt and Felter & Brucker's loss is 75 per cent.

City Park Superintendent Pape reports great damage to Forest, Tower Grove, and the smaller parks. The damage at Forest Park alone is \$1,000, and the other parks combined about the same, making a total loss to the city \$2,000. At Shaw's Garden the damage will reach in the neighborhood of \$2,000.

Jordan Floral Co., Mr. Kalisch, Wm. Mitchel, Brinsin & Zimmer and Aug. Kunz were more or less damaged with a few

broken panes of glass. John Kaufman's fine private place was damaged \$500.

The florists in South St. Louis escaped without any damage, as the hail was very light and small down their way. A great many fine trees and fine bedding about the city suffered, had the storm come a few weeks ago the damage would have been greater. As it was all the florists had sold out their market stuff.

Prices are about the same as last week, but with a declining tendency. There are lots of carnations about selling at from 50 cents to \$1 per 100. Roses are about as plentiful as ever, but of very inferior quality. All rose growers seem to be affected with bad cases of mildew, and some of the stock is unsightly as a consequence. Sweet peas have been in good demand, especially white and pink; the price is still 35 cents per 100 for white and pink, other colors 20 and 25 cents per 100.

Decoration Day, which will have come and gone before this issue will be in the hands of our readers, is not looked forward by our city dealers with any great expectations; the demand if there be any will be for the cheaper grade of flowers which will be scarce, as outdoor varieties have already gone out of bloom, or are much damaged by the recent storms.

J. W. Dunford at Central reports that he will build two new houses this summer.

Fred C. Weber made a new and original floral design last week, a scroll of honor on a bell shaped base, standing about 12 feet high. The scroll contained 75 American Beauties, the base was sweet peas.

At the Bowling Club Monday night the first question was "How much were you damaged by the hail," but they came to bowl hail or no hail. Emil Schray was high man in three games, 566; Beneke, second with 511, and Weber third, 479. D. Helwig was high on single game, 239, and Schray second with 214. Next Monday night will end the series of 12 games. J. J. B.

Detroit, Mich.

Though the Mt. Clemens establishment of John Breitmeyer & Sons was in the line of the recent cyclone they fortunately suffered but little damage, though it was



NEPHROLEPIS DAVALLIOIDES FURCANS.

a narrow escape. Their total loss may foot up \$300 and in view of the damage that might have been done they are very thankful to escape with so many small a loss.

Have not heard of any other damage to greenhouses in this vicinity. P.

Nephrolepis Davallioides Furcans.

This admirable fern may be safely recommended as one of those that are well adapted for a retail trade, its beautiful habit, strong constitution and easy culture making it specially noteworthy. A good general idea of this plant may be had from our illustration, though the small size of the photograph unfortunately prevents a distinct outline of individual fronds, by means of which such a plant is more readily recognized. The fronds of *N. davallioides furcans* are bright green in color, the pinnae slightly serrated on the edges and the tips forked or divided into two, four or sometimes more divisions, and the whole frond attaining a length of three to four feet in such a specimen as the one pictured.

While considered a warm house fern by some growers, yet the culture of this nephrolepis is by no means difficult, and it can be handled satisfactorily under much the same conditions as the well-known *N. exaltata*, and like the latter can be grown on quite rapidly during the summer by the following method: Early in the season, preferably in the beginning of April, fill a bench in a house that can be kept at 60° to 65° at night with light but rather coarse soil to a depth of four inches, the soil to be moderately enriched with dry cow manure. If it is convenient I prefer to use a portion of peat in the soil in order to render it more open, but this is not absolutely essential to success, and in some parts of the country is not easy to obtain. In the bed thus prepared plant young stock of the nephrolepis from 3 or 4-inch pots, water carefully and syringe occasionally during warm and bright weather, a moist atmosphere being a

prime necessity in fern growing. The house will of course require to be shaded during the warm season, and ventilated freely in accordance with the weather. If properly cared for under these conditions a rapid growth will be made, and when the time arrives for lifting and potting up the plants in question should be quite large enough to fill 7-inch or 8-inch pans or pots. When lifted the nephrolepis should be kept somewhat close for a few days in order to recover from the shock, and ought not to be offered for sale within one month from the time they were lifted from the bed, for a poorly established plant, full of soft growth to boot, is in no fit condition to be used in the decoration of a store or dwelling.

The propagation of nephrolepis is effected by spores and also by division, most of the species producing a quantity of stolons or runners, from which young growths are thrown up, and which may be separated from the parent plant and potted up as soon as the young crown has made a few roots.

In case the planting out method is not convenient, the nephrolepis can be grown very well in pots, using the same soil and treatment, though the growth will probably be less rapid and luxuriant.

W. H. TAPLIN.

San Francisco.

Business was a little better this week than was expected, although the market is flooded with outside roses, etc., still high-grade roses find a fairly good market. Testout of extra fine quality is to be had now, also Brides, Bridesmaid and Kaiserin are very fine. Mr. Geo. Karmen is sending in some extra fine Perles and Beauties. We note some immense blooms of Paul Neyron in the windows, also, which have been grown out of doors. Violets are going slowly at 75 cents per dozen. The quality is extra fine for this season of the year. Sweet peas are now coming in in earnest, the stems are of good size and the flowers generally at

this season are of fine form. The sorts that seem to be in favor at present are Emily Henderson, Firefly, Blushing Beauty, Countess of Radnor, Primrose, and Lady Penzance, the latter being very beautiful. Blanche Ferry also comes in for its share of popularity. Carnations are very plentiful, especially Portia. They are away down in price, however, although the quality is excellent. Scott heads the list in pink. Grallert brings in good yellow sorts regularly. At John H. Sievers' we note that they still cling to Edna Craig, and they undoubtedly have got the growing of this variety down to a fine point, as the blooms are truly magnificent. Lilies are nearly over, although some are to be seen yet. Auratums are coming along splendidly and soon will be in bloom.

Hon. J. Sterling Morton and party who have been visiting California during the past few weeks have departed for Washington. This was Mr. Morton's first visit to this coast and he was greatly impressed with its numerous advantages.

One of the most noticeable things at the rose show was Mr. Chas. Baker's new Mammoth Marguerite. It is a white seedling raised by Mr. Baker and measures four and one half inches in diameter. It is truly a magnificent thing and is attracting much attention in trade circles here.

Mr. E. W. McClellan has let the contract for his new range of glass at Belmont. The contract price was \$5,000. All the latest improvements will be used in this plant, and the houses will be built in the most substantial manner.

V. H. Hallock, representing Vilmorin-Andrieux & Co. of Paris, arrived here in San Francisco on Friday in the interests of the above named firm.

Mr. A. L. Vaughan of Vaughan's Seed Store, who has not been in good health, seems to be improving in our climate.

Healdsburg held her annual fiesta last week, and, as usual, it was the event of the year in that town. Business was suspended for several days, while the queen of the carnival reigned. A very excellent flower show was held in one of the pavilions, which was a credit to the Floral Society of that city. Santa Rosa, also, not to be outdone by her sister city, held her carnival a short while after, which was also a great success.

The Los Gatos Floral Society held its regular monthly meeting last week and paid up all the debts contracted during their last show. This society is fast becoming one of the strongest on the coast; has a very large membership and is in a very flourishing condition. The affairs of their annual chrysanthemum show was also discussed.

The San Mateo County Floral Society held a meeting last week relative to their annual chrysanthemum show, which is to take place in November. A committee was appointed to draw up a schedule of premiums and an effort is going to be made to try and induce the professional growers to participate.

The next show that will greatly interest the growers and seedsmen here will be the annual sweet pea exhibition to take place in June. This show rivals the exhibition in Springfield, Mass., and is thought by many to be far superior. It is of general interest to the trade here, as it gives them an opportunity of seeing all the novelties before being put on the market, whereby they can judge of their merits as cut flower varieties.

A movement is on foot here now among the business men of the city to institute an annual carnival similar to the ones

held in all the smaller cities of California. This is a very good idea, and the florists should do all in their power to bring about its success, because they will be greatly benefited if such a project is completed. For instance in all the smaller cities where all these floral carnivals have been held there are few if any florists or growers in the city or its vicinity, and the people generally look to their own gardens for their supply, whereas San Francisco being such a large city with all its florists and growers the public generally look to them for their supply of flowers, which they can not grow in their crowded homes. It is to be hoped that this movement will terminate successfully.

Mr. John Jacks did not resign his position with the Sunset Seed & Plant Co. as was reported, but is still at the head of their greenhouses. Mr. Mitchell occupies a similar position with Sidney Clack.

Sunday morning Mr. M. Lynch, Mr. A. L. Vaughan of Vaughan's Seed Store, Mr. V. H. Hallock of Vilmorin-Andrieux & Co. of Paris, Mr. H. C. Hall and James T. Lynch composed a fishing party at Menlo Park, where an excellent day's sport was enjoyed. METEOR.

Cincinnati.

According to the present outlook the coming outing will surpass anything of its kind ever given previously. The outing committee, consisting of Messrs. Jones, Heckman and Ball, have arranged the program. They have spared no time nor money, and promise to one and all a jolly good time. The sale of tickets has been enormous; nearly 1,000 have been sold the past week. The following committee will welcome and entertain visiting florists: J. C. McCullough, B. P. Critchell, H. L. Sunderbruch, F. Huntsman, J. A. Peterson, F. Pentland, E. S. Giesey, Fred Walz, W. Gray, J. Fries and E. A. Porter. The amusement for the day will take place in the following order: Bowling contest, immediately upon arrival at the island; ball game between the store and greenhouse boys 18 years and under; quoits, distance 18 yards; foot race; young ladies' race; girls' race, 14 years and under; sack race; boat race; donkey race. The committees will make their own rules, and all entries must be made with the committee in charge, and if possible a day before that of the picnic. Suitable prizes will be awarded to those winning in the above contests.

Rain came at last, and was very much appreciated. Market and local trade has improved somewhat, but cut flowers have been moving slowly. Planting in our city parks will be completed by Decoration Day, mostly cannas being used this season. Decoration Day orders are coming in as freely as heretofore, and there is good reason to look for a big demand. Outdoor roses and other stock will be scarce. Carnations and sweet peas will be plentiful.

Fire broke out on the night of May 25 in the cellar of Mr. Julius Baer on Fourth street; fortunately it was discovered before it got a start, and the alarm sent in. Damage light, cause unknown.

HENRY SCHWARZ.

Rochester, N. Y.

The bedding out season is at its height just now, everybody is kept busy filling baskets, vases, veranda boxes of all sizes, and laying out or planting flower beds of every description. Sure, it may be considered rather early for this section to plant out coleus, alternanthera and the

like, but we are having such steady warm weather since the beginning of April that people become reckless and demand their beds planted now, although we usually advocate waiting until after Decoration Day with such tender stuff. There seems to be an enormous quantity of everything in this line on hand, for the prices are away below any former years, and the plants are generally of good size and quality. It is true that some stock is being used up very fast, and another week may show a scarcity in one thing or another so that those who held on to their stock may realize better prices later on, still it is astonishing how some growers can afford to sell at such bottom prices and make a living out of it. Good sized specimen plants for lawn or piazza decoration, however, bring fair prices, but sales in such are not very large, and there is plenty of stock in view yet to select from.

In the cut flower market there is no change for the better; the demand is not up to the supply, but roses of strictly first quality are selling well. Unfortunately we never have many of them in the market. Outdoor valley is gone, and what is offered now in this line was held back and has improved in quality. Carnations are plenty except the whites, no violets are to be had, but the dark blue sweet-scented Viola cornuta takes their place here in some of the stores. They are not grown very abundantly as yet, but by all appearances will be plenty another year, for they seem to take well.

A change in the firm of Vick & Hill of Barnard's Crossing has to be recorded, Mr. Ed. Vick stepping out. He will, on his own account, run the retail florist store opened by this firm almost two months ago, the firm assuming all liabilities. J. B. K.

Waterbury, Conn.

While business has somewhat revived during the past week or two, there is still considerable room left for improvement. What has been needed in this section of the country, and needed badly, is rain, the almost unprecedented dry spell during the whole month of April and the fore part of May, having in a great measure retarded the sale of plants. Of funeral work, however, there has been considerable of late, both Mr. A. Dallas and Mr. R. S. Rasmussen having had all they could do.

Mr. Dallas will soon commence building additional houses, each 150x20, of which one is intended for roses and the other one for carnations. Every modern improvement will be introduced and when completed the houses will be models of the kind and will compare most favorably with the best in the state of Connecticut. Mr. Dallas is cutting some fine carnations, as does also Mr. R. S. Rasmussen. Homo.

Springfield, Ill.

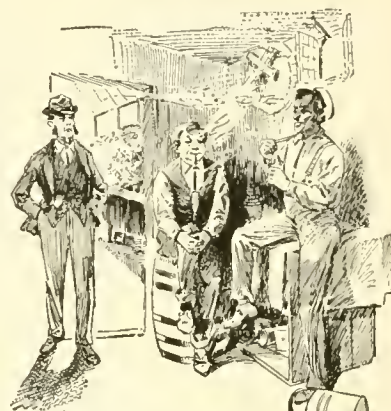
The heavy hailstorm which struck our city on the afternoon of the 18th inst. was the heaviest we have had since the memorable one of '78, when there was hardly a light left on the north side of the building all over town. This time only the north side of the city was visited, causing a loss to florists of nearly \$3,500 in broken glass and loss on stock. The hail stones were from the size of hickory nuts to large walnuts, and where it was heaviest covered the ground nearly two inches. George Brinkerhoff lost nearly 9,000 square feet of glass, but his plants were not much hurt; total loss in the neighborhood of \$1,200. David

Wirth's place was badly riddled, losing three-fourths of his total area, or about 8,000 square feet; his stock was considerably damaged. He says \$1,200 will not more than replace it.

A. Claus was not damaged so heavily, being the loser of some 3,000 square feet or about half his total area, with slight loss on plants, amount will be nearly \$400. Carl Rauth, who is near Mr. Claus, lost in the same proportion, and placed his loss at nearly \$300.

H. D. Moss, or Moss & Hey, were heavy losers, having only half a dozen lights left out of nearly 2,000 square feet; their stock was used up badly, too, so they sustained a loss of some \$250 to \$300. L. Unverzagt was the only one on the south side of the city to be touched, loss about 50 lights. Strange to say none of them carried insurance. Quite a quantity of garden stuff and fruit suffered.

A. CAMPBELL BROWN.



IMLS OF THE POTTING SHED

Jaggs and Another.

"Things seem to be goin' jolly wrong in Halrica," observed the little Englishman, as he unfolded his weekly copy of *Reynolds' Newspaper*. "My second cousin was aroamin' around somewheres Pretoria way, last I hears of 'im; I 'ope 'e aint jailed by them there Boers."

"If he is," observed Jaggs, dexterously filling a borrowed pipe with some other man's tobacco, "he's run up agen uncommon good luck. Maybe it's a misfortun' for a chap to be in jail in Africa, but it's a precious sight worse to be out o' jail in Africa."

"I s'pose you made a reg'lar study of Africa, old chap, when you was on the Midway," sympathetically observed someone in the audience.

"I don't pretend to ha' made a study o' nothink," observed Jaggs with dignity, "but a chap wot had my advantages does pick up a bit here and there. Why, when I was sent out to Cape Town on account o' my weak lungs, hein' dangerous to stay another winter in a damp climate, which is the reason I stay in this precious old desert 'stead o' goin' home, I see a bit o' the country, you may be sure. Lor', when I think o' some o' the things I see it just puts me in a cold perspiration now. I aint never told you chaps about the time I went across to Madagascar on a hunt for a blue horchid, have I?"

"Wot was you doin' in Madagascar, if you was sent to Cape Town for weak lungs?" Inquired someone with suspicion.

"I s'pose you fancy a chap can't go nowheres without there's a trolley car goin' right past it," observed Jaggs, sarcastically. "You'd make a precious fine

orchid collector, you would. As I was sayin', orchid huntin' in Madagascar is pretty tough, and if I hadn't run up agen the chief o' one o' they savage tribes wot used to be in the propagatin' range at Slough" —

"Look here, Jaggs," indignantly observed one of the audience, "we all know you aint one to tell a lot o' crams, but when you talk about a Madagascar cannibal propagatin' at Turner's" —

"Cannibal," observed Jaggs, "who's talkin' about cannibals? There aint nothink queer about it; my old chum Jenkins went out to Tamatave indigo plantin', thinkin' he'd like a change, which he got; them savages captured him, and he made himself so solid in the primaries that afore he'd been there a year they made him chief. I reckon they savages thought the chief had gone a little dotty when he rush up to me with tears of joy, and says 'Jaggs, old chap, who won the Derby?'"

"I suppose that was about the narrowest escape you ever had," observed the new young man who didn't know Jaggs.

"Well, I fancy it was a trifle serious, though a thing like that doesn't queer a chap that keeps cool, but the time that there black lion broke my left arm really was serious. You've heard o' them black lions o' Madagascar—well, me and Jenkins was strollin' along one day when I see a plant as was new to me—it was that there enlophiella as was introduced afterwards! First thing I know I hear a crash through the branches of a banyan tree, and over I goes, with the lion on top o' me, takin' hold like he was a tarrier and I was a bone. I can tell you, lions is all very well in Hagenbeck's circus, but a chap don't want to meet 'em in a social way. Howsomever, I aint one to lose my presence o' mind, and as I lie there I happen to think as I had a zinc orchid label in my pocket, one o' them we used to stick in the large cœlogyne pans, a square label, mounted on a stiff wire pointed at the end so's to stick in the moss. Just as that there beast took a fresh grip I draws that label, feels for the exact spot and plunges that wire right up to the label in the beast's heart. Then I faints, and when I come to there was that lion stretched out stiff, while Jenkins, as always was a precious tender hearted chap, was a-washin' the blood off o' me and cryin' like a child."

There was a momentary pause, while the audience sat in an apparently dazed condition; then someone recovered enough to ask Jaggs what became of the lion's skin.

"That there skin went nearly everywhere with me—it was an uncommon fine one too, but I had to sell it at last, bein' in uncommon hard luck, and that there Johnny as bought it goes about tellin' how he killed it himself. If there's one thing as I despise it's a chap as goes around tellin' a lot o' bloomin' crams about things as he hasn't done."

Tightening a Leaky Tank.

Mr. Ulbricht of Alabama can make his tank water-tight by having iron hoops made in two pieces, each piece reaching nearly half way around the tank and having ears with holes in them the size of the bolts used on each end so that the two pieces can be bolted together. This kind of hoop needs no driving up at all, but is put on where it is to stay and can be made to draw the staves as tight together as need be.

Any blacksmith can make them cheap by using old wagon tires. Care should be

taken to get the hoops and bolts heavy enough to use force in drawing the two pieces of hoop together.

Another very good way to stop leaky tanks when the leaks are small is to make cement about the consistency of whitewash and apply several coats with a whitewash brush. When the leaks are large a good coat of pitch with the help of the hoops described above will always stop the leak. RALPH W. MAYER.

Oil for Fuel.

I would like to be put in communication with some of the florists who are using oil for heating their plants, so if they will kindly answer this I will be very grateful to them. B. J. P.

Lock box 121, Swarthmore, Pa.

Catalogues Received.

D. Hay & Son, Auckland, New Zealand, fruit trees and other nursery stock, roses, etc.; Schlegel & Fottler, Boston, Mass., bulbs; A. Rolker & Sons, New York, florists' supplies; Sander & Co., St. Albans, England, and Bruges, Belgium, orchids, palms, etc.; Wisconsin Flower Exchange, Milwaukee, Wis., plants; Anna B. Nickels, Laredo, Tex., cactus; S. A. Van Konijnenburg & Co., Noordwijk, Holland, bulbs and forcing plants.

BRAZIL, IND.—A. Dinkle contemplates adding a new greenhouse. Also an office.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED—By competent florist and gardener, 9 years' experience; good references. Address L, care American Florist.

SITUATION WANTED—By a first-class rose and carnation grower, single, 8 years' experience; good references. M, care American Florist.

SITUATION WANTED—By German florist, single, age 34 years; good grower of cut flowers, palms and pot plants; first-class references. Address G 34, care American Florist.

SITUATION WANTED—As foreman or manager, by a successful rose grower and general plantsman; 19 years' experience; age 36, married; sober and reliable. Address C, care American Florist, Chicago.

WANTED—1,000 feet good second hand 4-inch cast pipe and fittings; give price. S. WILSON & SONS, Marion, Ohio.

WANTED—A first-class gardener and florist for private place; married; German preferred. State experience, and wages expected. F. S. ALLEN, Joliet, Ill.

WANTED—Experienced florist, to grow roses, carnations, chrysanthemums, bulb and bedding plants, at once. A. KLOPPER, 208 Smithfield St., Pittsburgh, Pa.

WANTED—A first-class grower of roses, chrysanthemums, violets and general cut stuff. Must be well up in palms and ferns. Give references. X Y, care American Florist, Chicago.

FOR SALE—Two 9 section Carmody boilers, good as new. Price on application. LEWIS TURNER, Kenosha, Wis.

FOR SALE—An old established retail store in Chicago, south side. Satisfactory reasons given for selling. Address M K, care Am. Florist.

FOR SALE—At half price, three greenhouses, stock, boiler, pipes and everything belonging to it, if applied for soon. W S P, care American Florist.

FOR SALE—Very cheap, a lot of extra good second-hand boiler tubes, with collars all ready for packing; tubes about twelve feet long. W. H. SALTER, Rochester, N. Y.

FOR SALE—Florist business, 6 greenhouses, dwelling house, barn, wagons and stock in good location. Address B A F, Room 51, 171 Broadway, New York City.

FOR SALE CHEAP—Florist business; 5 houses, 500 square feet of glass, fine stock ready for spring trade; hot water heating, 2 sheds, dwelling, etc. All in good condition. Rare chance for the right man. To be sold on account of ill health. For particulars address E. TIEDEMANN, O'Fallon, Ill.

FOR RENT—For a term of years, my greenhouse plant, containing about 800 feet of glass, steam heated, in a good location in the outskirts of the city, with an established cut flower trade. Some of the houses are planted to roses and cut flowers now, good for another season, and plenty of young plants of the best varieties of roses and other plants to replant. Possession given at once. A good grower with a few hundred dollars can buy into a good business. Address J. D. SELZER, Cashier Internal Revenue Office, Cleveland, O.

FOR RENT.

Eleven greenhouses; it is also a good chance for a man who has a small capital; there is a great deal of stock on hand. Write for information. It is also a good shipping trade. Apply

HENRY MOORE,
McLemore Ave., Memphis, Tenn.

Exceptional Opportunity.

FOR RENT.

One of the leading florist establishments in a wealthy suburban district, doing a large and increasing trade, with the best class of customers.

There are 6 houses in two blocks, covering 8,500 feet of ground, with a large shed, and one acre of land. More land can be had if required. Cut flower stock (young roses, carnations and chrysanthemums in best varieties) on hand for planting. Also large Decorative Plants, Ferns and Bedding plants.

Hail insurance just paid. Express, Post and Telegraph offices at R. R. Station, ¾ miles from greenhouses; ½ hour by train from city. Telford roads in all directions. An exceptional opportunity for courteous, energetic man. The present tenant retires on account of other business requiring his absence from home.

Rent \$800 per year, including house and stable—stock, including tools and pots, extra. For further particulars, address J.

care H. F. MICHELL, 1018 Market St., Philadelphia.

FOR TWO WEEKS ONLY.

Special Offer.

Specimen Palms.

LATANIA BORBONICA, 5 to 6 feet, 6 to 8 leaves, \$3.50 \$4 and \$5 each.

PHŒNIX CANARIENSIS, 5 to 6 feet, 6 to 7 leaves, \$4 and \$5 each.

ARECA LUTESCENS, 5 to 6 feet, 4 to 8 shoots, \$5, \$6 and \$7 each.

SABAL GLAUCESCENS, very hardy vase plants, 2½ to 3 feet, \$1.50 each.

KENTIA McARTHURII, 3 to 3½ feet, well furnished, \$2.50.

DRACÆNA INDIVISA LINEATA, fine vase plants, 3 to 4 ft. \$1, \$1.50, \$2 ea.

PRITCHARDIA GRANDIS, 3 feet, 7 to 8 leaves, perfect gems, \$4 each.

The above prices are 25 per cent. less than regular trade prices.

N. B.: How many Liliun Harrisii Bulbs will you plant? Let us give you prices. We can beat the bottom, we know we can. We live right there in Bermuda and know all about the stock.

BELLE SIEBRECHT ROSE, strong plants, 4-inch pots, \$12.00 per 100; 2½-inch pots, \$8 00 per 100.

SIEBRECHT & WADLEY,

NEW ROCHELLE NURSERIES,

NEW ROCHELLE, N. Y.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.
Subscriptions accepted only from those
in the trade.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
wares pertaining to those lines ONLY. Please to
remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure
insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

DON'T put special delivery stamps on
letters addressed to us. Our experience
is that in the majority of cases they delay
delivery instead of expediting it.

THE only reference list of cannas is to
be found in our new directory and refer-
ence book. The list is arranged alphabeti-
cally and gives name, date of introduction
name of introducer and a brief descrip-
tion.

THE reference lists in the new Directory
and Reference book give descriptions and
other valuable information regarding
2,543 varieties of roses, 2,988 varieties of
chrysanthemums, 495 varieties of carnations
and 524 varieties of cannas.

WE HAVE RECEIVED a basket of cape
jasmine blooms from J. M. Weems, Alvin,
Texas. They came in excellent condition,
and were fine blooms, noticeable for the
length of stem with which they were cut,
which added much to their value.

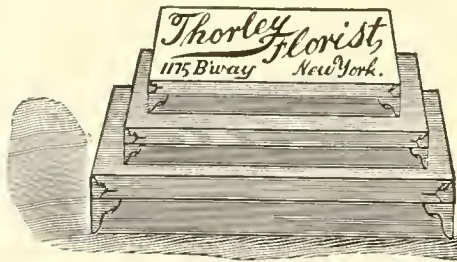
THE PREMIUM LIST of a chrysanthemum
show to be held by the Washington
County Floricultural Society at Hagerstown,
Md., November 5-7 next, is received.
Particulars may be obtained from Newton
S. Owen, secretary, Hagerstown, Md.

AMERICAN GRAPE GROWING AND WINE
MAKING, by George Husmann, fourth edition,
contains a good deal of additional
matter, which adds much to its value.
It is one of the best works of its kind,
and is, in this latest edition, brought
right up to date. Orange Judd Company,
New York, publishers.

THE SCHEDULE OF PRIZES for the first
annual exhibition of roses and garden
flowers, given by the New York Florists'
Club and the New York Gardeners' Society,
is now issued. It is a free exhibition,
to be held at the Newsboys' Home. The
Florists' Club offers 25 silver medals, and
two silver cups are offered. Particulars
may be obtained from the secretary of
committee, J. I. Donlan, 51 W. 28th St.,
New York.

THE new directory contains a total of
9,528 names and addresses, of which
5,258 are florists who do a general local
trade, having greenhouses and retailing
the product of same, 797 are florists who
grow for the wholesale market only, 645
are retail store florists who have no
greenhouses, 52 are wholesale commission
dealers in cut flowers, 1,524 are nursery-
men, 543 combine the business of florist
and nurseryman, 364 are seedsmen, 248
combine the business of florist and seed-
man, and 97 who combine all three
branches of the business.

Mention the American Florist when
writing to advertisers on this page.



The boxes as they appear when set up for use.

We make them in a sufficient number of sizes, including for violets, to meet all necessary requirements.

THE NATIONAL FOLDING BOX & PAPER CO.,

NEW YORK SALESROOM:
132 & 134 Franklin Street.

315--325 Congress Ave., NEW HAVEN, CONN.



WISCONSIN FLOWER EXCHANGE,
CUT FLOWERS,
Palms, Ferns and Growers' Stock.

FLORAL ARRANGEMENTS, STORAGE
AND COMMISSION.

Box 87. MILWAUKEE, WIS.

C. A. KUEHN,
Wholesale Florist,

1122 PINE STREET,
ST. LOUIS, MO.

A complete line of Wire Designs.

H. L. SUNDERBRUCH,
Wholesale Florist

4TH AND WALNUT STREETS,
Cincinnati, O.

The Boston Flower Market

is prepared to purchase, on order, and
ship Trade orders for Cut Flowers at
prices ruling in the market on day of
sale. TERMS STRICTLY CASH.

Address **WM. J. KENNEDY, Mgr.,**
Flower Market, Park St., BOSTON, MASS.
Long Distance Telephone "Haymarket 638."

DAN'L B. LONG,
FLOWERS AT WHOLESALE.

Strictly Commission Business.
SUPPLIES, ETC.
LISTS FREE. **BUFFALO, N. Y.**

A. & F. RÖLKER,
Down-town Wholesale Florists,
106 & 108 Liberty Street (Basement),
NEW YORK.

ALWAYS mention the AMERICAN FLO-
RIST when writing to advertisers.

"The National"

Folding Flower Boxes are the best
and most convenient ever put upon
the market. They are made from
board, manufactured especially for
these goods, and made so as to resist
moisture, thereby keeping the flow-
ers fresh, and the box holding its
shape.

**THE NEW YORK
CUT FLOWER CO.,**

119 and 121 W. 23rd St., and
112 and 114 W. 24th Street,

IS NOW

OPEN FOR BUSINESS.

The Largest Dealers in

**CUT FLOWERS
IN THE WORLD.**

Handling flowers of all kinds in quantity
we are in a position to fill shipping orders
promptly. We shall give careful attention
to this branch of the business, and solicit
your patronage.

**WHOLESALE
FLORISTS**

JOEBERS IN
FLORISTS'
SUPPLIES,
FLORISTS'
VASES.

METS,
BRIDES,
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.

84 Hawley Street,
BOSTON, MASS.

HORTICULTURAL AUCTIONEERS.

Always mention American Florist.

WELCH BROS.,
Wholesale Florists,

NO. 2 BEACON STREET,

Near Tremont St. **BOSTON, MASS.**

Asparagus Plumosus Nanus.

Cut Strings, 8 to 10 feet long,

50 CENTS.

W. H. ELLIOTT, Brighton, Mass.

SAMUEL S. PENNOCK,
Wholesale Florist

1612 & 1614 BARKER STREET,
Bet. Market & Chestnut, **PHILADELPHIA, PA.**

E. H. HUNT,
WHOLESALE FLORIST
 68 Lake Street, CHICAGO.
WHOLESALE CUT FLOWERS.
SEEDS, BULBS AND ALL
FLORISTS' SUPPLIES

KENNICOTT BROS. CO.
Wholesale Cut Flowers
 and FLORISTS' SUPPLIES,
 88 Wabash Avenue, CHICAGO.

Winter & Glover,
 Successors to T. J. CORBREY & CO.
Wholesale Commission Florists
 59 Wabash Ave., CHICAGO.

If you want First-Class Flowers, properly packed and delivered on time, send us your orders and you will get what you want.

We are now prepared to furnish Florists' Wire Designs and a full line of Florists' Supplies.
WRITE US FOR OUR ILLUSTRATED CATALOGUE.

Bassett & Washburn,
 Successors to J. B. DEAMUD & CO.,
CROWERS and
WHOLESALE CUT FLOWERS,
 DEALERS in
 88 Wabash Avenue,
 CHICAGO.
 HEADQUARTERS FOR AMERICAN BEAUTIES.

Reinberg Bros.
WHOLESALE CUT FLOWERS,
 51 WABASH AVENUE,
 Telephone Main 4937. CHICAGO.

Our Roses beat them all, in quality.
 Headquarters for fine American Beauties.

W. E. LYNCH,
WHOLESALE CUT FLOWERS,
Wire Designs a Specialty.
 59 WABASH AVENUE,
 CHICAGO.

ROGERS PARK FLORAL CO.,
Wholesale Growers of
CUT FLOWERS,
 41 WABASH AVENUE,
 CHICAGO.

We are prepared to fill your orders with first-class flowers. Give us a trial order.

A. G. Prince & Co.
WHOLESALE
COMMISSION FLORISTS,
 88 Wabash Avenue,
 Telephone Main 3208. CHICAGO.

Consignments solicited. Prompt attention to all orders.

FLOWERS at RETAIL.

We are prepared to fill orders—received by mail or telegram—for Cut Flowers, etc., to be delivered in Cincinnati and suburbs or nearby towns.

* Customary discount to the trade.

HUNTSMAN & CO.,
 615 Race Street, CINCINNATI, O.

Wholesale Markets.

Cut Flowers.

	NEW YORK, May 25.
Roses, Beauty.....	1.00@15.00
" all other varieties.....	.50@ 4.00
Carnations, ordinary.....	.25@ .50
" fancy.....	.50@ 1.00
Sweet peas per 100 bunches.....	1.50@ 3.00
Valley.....	1.00@ 3.00
Harris.....	2.00@ 4.00
Mignonette.....	.50@ 2.00
Adiantum.....	.75 @ 1.00
Asparagus.....	.50 00
Smilax.....	12.00@15.00

	BOSTON, May 25.
Roses, Gentler, Niphetos.....	2.00@ 2.00
" Perle, Mermet.....	2.00@ 3.00
" Bride, Bridesmaid, Meteor.....	2.00@ 4.00
" Beauty.....	5.00@20.00
Carnations.....	.75@ 1.50
" fancy.....	.75@ 1.50
Valley.....	2.00@ 3.00
Longiflorum.....	6.00@10.00
Mignonette.....	2.00@ 3.00
Sweet peas.....	.25@ .50
Adiantum.....	1.00
Smilax.....	15.00@20.00
Asparagus.....	50.00

	PHILADELPHIA, May 25.
Roses, Beauties long.....	10.00@16.00
" medium.....	8.00@15.00
" short.....	2.00@ 5.00
" Brunners.....	8.00@16.00
" Brides, Bridesmaid, La France etc.....	2.00@ 4.00
" Kaiserin.....	3.00@ 4.00
" small teas.....	1.00@ 2.00
Carnations, fancy.....	.50@ .75
" first quality.....	.50@ .75
Sweet peas.....	2.00@ 4.00
Paeonies.....	15.00@20.00
Smilax.....	35.00@50.00
Asparagus.....	1.00
Adiantum.....	1.00

	CHICAGO, May 25.
Roses, Beauties.....	8.00@25.00
" second.....	4.00@ 6.00
" Brides, Bridesmaid.....	4.00@ 6.00
" Meteors.....	4.00@ 6.00
" Perle, Woodstock.....	3.00@ 5.00
" Testout.....	5.00@ 7.00
" Kaiserin.....	5.00@ 6.00
Carnations.....	1.50@ 2.00
" fancy.....	2.00@ 3.00
Longiflorum.....	3.00
Valley, cold storage.....	3.00
Cape jasmine.....	1.00@ 2.00
Mignonette.....	1.00@ 2.00
Sweet peas.....	.50@ .75
Irises.....	2.00@ 3.00
Paeonies.....	3.0@ 5.00
Corianders.....	.40
Smilax.....	15.00@18.00
Adiantum.....	1.00

	ST. LOUIS, May 25.
Roses, Beauties, long.....	5.00@12.50
" short.....	2.00@ 4.00
" select stock.....	2.00@ 3.00
" general stock.....	1.50
Carnations, fancy.....	1.00@ 1.50
" ordinary.....	.50
Valley.....	2.00
Harris.....	8.00@10.00
Callas.....	5.00@ 8.00
Tulips.....	2.00
Sweet peas.....	.25@ .35
Cape jasmines.....	1.00
Paeonies.....	2.00
Smilax.....	12.00@15.00
Ferns, fancy.....	1.50
Ferns, dagger.....	1.00

GEORGE A. SUTHERLAND,
 Successor to PECK & SUTHERLAND,
 Successors to WM. J. STEWART.

Cut Flowers and Florists' Supplies
WHOLESALE.

67 Bromfield St., BOSTON, MASS.
 New England Agent for the GREAT ANTIPEST.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

THE DIRECTORY

For 1896

* Is Now Ready.

Price \$2.00.

American Florist Co.

John I. Raynor,
 49 WEST 28th STREET,
NEW YORK.

SPECIAL EXTRA STOCK OF
AM. BEAUTY, METEOR,
BRIDESMAID, BRIDE.

DISBUDDED CARNATIONS.
FANCY GRADE.

Extra Fine SWEET PEAS.

THOS. YOUNG, Jr.
Cut Flowers,
WHOLESALE,
 43 W. 28th Street, NEW YORK.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST,
 39 West 28th Street, NEW YORK.

Roses shipped to all points. Price list on application.

Edward C. Horan,
 34 W. 29th Street, NEW YORK,
WHOLESALE • FLORIST.

Careful Shipping to all parts of the country.
 Price list on application.

Purdy & Blauvelt,
WHOLESALE DEALERS IN
CUT FLOWERS,
 57 W. 30th St., NEW YORK.

JOHN YOUNG,
FINE ROSES
WHOLESALE,
 51 West 28th St., NEW YORK.

FRANK MILLANG,
CUT FLOWERS,
WHOLESALE, COMMISSION,
 408 E. 34th Street,
 Cut Flower Exchange, NEW YORK.

JULIUS LANG,
 Commission Dealer in Cut Flowers,
WHOLESALE,
 53 West 30th St., NEW YORK CITY.

MILLANG & CO.,
WHOLESALE FLORISTS,
 501 Sixth Avenue,
 CORNER 30TH ST., NEW YORK.
 Consignments Solicited.

The Seed Trade.

AMERICAN SEED TRADE ASSOCIATION.

S. E. BRIGGS, Pres.; T. W. WOOD, 1st Vice-Pres.; ALEX. RODGERS, 2nd Vice-Pres.; A. L. DON, 114 Chambers St., New York, Sec'y and Treas. The fourteenth annual meeting will be held at Niagara Falls, N. Y., June 9 to 11, 1896.

The Northrup Braslan Goodwin Co. Fail.

On Thursday, the 28th, at Chicago, the Northrup, Braslan Goodwin Co. made a general assignment in the County court to William F. Fenton. Before the assignment was made the company confessed judgment on the following notes:

Lake Manawa Land Company	\$ 860.61
International Trust Company	20,033.33
Howcroft & Watkins	5,089.33
Samuel W. Goodwin, of Waterville, N. Y.	8,168.42
National Bank of Waterville	12,051.89

The assignment was precipitated by attachments taken out early on the same date by the Madson Seed Co. on stock stored by the firm at Manitowoc, Wis. It is understood that an assignment was also made by the Minneapolis house on the same date. The liabilities of the concern lie mainly with banks and foreign houses, the amounts in open accounts with American houses being small.

Undoubtedly the great shrinkage in all seed values this season and the dull jobbing trade had much to do with the final decision of the house to drop the rather heavy burden of debts which they have been carrying.

Another prominent factor in the case was undoubtedly the loss of the government seed order. The firm had by contract and by purchase placed itself in position, early after the seed appropriation became a law in March, 1895, to supply the department their usual stock at closest prices. The loss of this contract, by what is conceded to have been unfair means, by those best posted, left the firm with heavy stocks to carry over. Undoubtedly had they secured the business it would have kept them on their feet.

While many in the trade have looked upon the N. B. G. Co. as demoralizers in prices, those in best position to know assert that many of the prices made by them have been forced by the strongest competition and that the prices at which they owned seeds on contract justified them in making the rates they did. We have no doubts that the trade will soon find other jobbers on whom the responsibility for cut rates can conveniently be placed, and the never ending war of competition will still go on.

THE "MORON Seed Co." of Chicago is no more. Geo. M. and Russell H. Osgoodby, who conducted it, have been indicted and arrested upon two charges of using the mails for fraudulent purposes and obtaining money on false pretenses.

BOSTON.—It is reported that a new seed firm is about to be formed here.

VISITING NEW YORK: R. J. Farquhar, Boston.

Utica, N. Y.

The cut flower trade is very quiet at present. The quality of stock offered daily grows poorer. With everyone devoting his whole energy to the plant trade it is no wonder that roses grow smaller and weeds larger. There is a scarcity of large plant stock suitable for filling vases of the larger sizes. This seems to happen every year, and is caused by throwing on the rubbish heap all manner of plant stock in the fall to make room

Roman Hyacinths.

Our cable advices say, and we say, this is the time to buy. We can save you money if you will send us your order **at once.**

VAUGHAN'S SEED STORE,

CHICAGO: P. O. Box 688.

New York: 14 Barclay Street.

JOBBER OF FLORISTS' BULBS FOR 20 YEARS.

BUIST'S

Wholesale Turnip Seed Catalogue
now ready for the Trade.

The growing of Turnip Seeds is one of the Specialties of our house. If you have not received a copy of our trade prices write for it.

ROBERT BUIST COMPANY, Seed Growers, Philadelphia, Pa.

for anything in the cut flower line. Then as spring draws near instead of having plenty of stock to propagate from everything has to be cut up so close as to leave nothing of any size.

Coal and its price is the all prevailing topic here for the last few days. From present indications we shall pay from 50 to 75 cents per ton more for coal than we did last year, the lowest price if ordered this week being \$4.75 for grate coal, which is the size mostly used by the florists here. And no reduction if you use 10 tons or 500.

At last we have all metropolitan innovations, a department store having taken up seeds, plants and bulbs, flower seeds, two packets for 5 cents; grafted roses, dormant, 15 cents each; lily bulbs, 10 cents each. The public seem to regard this sale as a long felt want, as they flock in crowds to sort over a table full of roses.

The long waited for rains at length arrived; early planted stock of carnations and violets has taken on a new lease of life and is now coming on all right.

F. J. B.

Lawrence, Mass.

J. B. Halley is building an additional rose house 16x50.

C. E. Wingate will soon commence building a carnation house, which will cover 180x40. HOMO.

ELGIN, ILL.—All florists here seem to have escaped damage by the storm.

YOUNGSTOWN, O.—Arthur G. Lewis, well known as a florist for a half century, died on May 15, aged 72 years. He leaves a wife and three children.

BULBS

For Fall Delivery.

Give us your wants, and will quote you price that will give you a living profit.

WM. ELLIOTT & SONS,

—NEW YORK.

PRIMROSE
SEED.

This season's crop of our Chinese Primrose seed now ready for delivery. Our Primroses are greatly improved, and new varieties offered for the first time. We put up packets specially for florists. Single and double, fifteen best selling sorts.

400 SEEDS. PRICE \$1.00.

For separate vars. send for our Primrose Seed circular
HENRY S. RUPP & SONS, Shiremansdown, Pa.

CYCAS REVOLUTA.

We are prepared to sell you just what you want at reasonable rates.

Write for quotations.

WISCONSIN FLOWER EXCHANGE,
Box 87. MILWAUKEE, WIS.

WANTED, Seeds of

Arecia sapida, Baueri, Lutescens, Kentia Belmoreana, Forsieriana, Pandanus Veltchii, Alettris Lindenii, Geonoma gracilis, Cocos Weddelliana, Araucaria excelsa, etc.

Please send price for large quantities to
C. EBERT, Oetzsch, near Leipzig, Germany.

PRIMULA SEED.

This Year's Crop, Now Ready.

Our superb mixture contains only the choicest fringed strains, and will give the greatest satisfaction. Trade pkt. 50c.

Cineraria Seed.

Our strains are unsurpassed for richness of color as well as for size and perfection of form. Trade pkt. 50c.

HERRMANN'S SEED STORE,

413 E. 34TH STREET,

Near Long Island Ferry, **NEW YORK.**

Agent for LYSOL, the ideal insecticide.

L. HARRISII BULBS
FOR JULY DELIVERY
AT SPECIAL PRICES
IF ORDERED NOW.
SEND FOR PRICES.

Import Price List **DUTCH BULBS**
 now ready. Free.

DAN'L B. LONG,

Jobbing Florist & Importer of Forcing Bulbs,
BUFFALO, N. Y.

JUST ARRIVED FROM SOUTH AMERICA:

A small lot of **ARECA LUTESCENS** Seeds; these are **ABSOLUTELY FRESH**, and are **SURE TO GROW**. While stock lasts, \$6.50 per 1000; 500 at 1000 rate.

G. C. WATSON,
 43 North 10th St., **PHILADELPHIA.**

P. S.—We send them postage paid at prices quoted. Mail orders will receive prompt attention. G. C. W.

C. H. JOOSTEN, Importer,
 193 Greenwich Street, **NEW YORK.**

SPECIALTIES.

Bulbs, Azalea Indica, Palms, Roses,
and all kinds of Nursery and
Fruit Tree Stocks.

Catalogues on application.

SEEDS ... FOR THE ...
Garden and Farm

Vegetable and Flower Seeds. All the newest and best varieties—quality unsurpassed, Illustrated Catalogue **FREE.**

WEEBER & DON, Seed Merchants
 and Growers,
 114 Chambers St., New York City.

Plant Auction.

SALES EVERY TUESDAY AND FRIDAY
THROUGHOUT THE SEASON.

A. & F. RÖLKER, Auctioneers.106 Liberty Street, **NEW YORK.****TUBEROUS****Begonia Bulbs.**

All colors separate.

\$2.00 per hundred. \$18.00 per thousand.

L. C. BOBBINK, Rutherford, N. J.

Branch of the Horticultural Co., Boskoop, Holland.

When you write to any of the advertisers in this paper please say that you saw the advertisement in the American Florist.

**LARGE-FLOWERING DOUBLE PRIMULA.**

	100 seeds	
Double White	\$0.50	
Double Striped	.50	
Double Rose Pompon	.50	
Double Red	.50	
Double Mixed	150 seeds 50c.	

Our Double Primulas bring a large percentage of double flowers.

For other Flower Seeds see our "Book for Florists." Sent free to florists.

NEW YORK: 14 Barclay St. VAUGHAN'S SEED STORE, CHICAGO: 84-86 Randolph St.
 When writing mention the American Florist.

VAN ZANTEN BROTHERS,

Hillegom, Holland.

Extra quality of **HIGH GRADE FORCING BULBS AT LOW PRICES.** We now book orders for **Azalea Indica, Palms, etc.** The largest collection of sundry bulbs and plants.

APPLY FOR WHOLESALE CATALOGUE.

When writing mention the American Florist.

P. VOS & CO., Sassenheim, Holland,

GROWERS OF

Hyacinths, Tulips, Crocuses, Narcissus, etc.

WE ARE ABLE TO QUOTE THE LOWEST PRICES FOR WHOLESALE DEALERS.

Mention American Florist.

Antirrhinum Majus Albus.

(GIANT WHITE SNAPDRAGON.)

Is of easy culture, a free bloomer and a good seller. Just the thing to plant after your mums. Why not try it.

Rooted Cuttings by Mail or Express, prepaid, per 100, \$1.50; per 1000, \$10.00.

THE HARRISON H. GIVEN FLORIST CO., DENVER, COLO.

The Directory
For 1896
IS NOW READY.
Price \$2.00.
AMERICAN FLORIST CO.,
CHICAGO.



SEEDLINGS OF
PHOENIX SYLVESTRIS and
LATANIA BORBONICA, from
 flats, 75c. per 100, postpaid.
SWORD FERNS, large, \$3
 per 100; \$15 per 1000.
 Send for Special Trade
 List and Catalogue.

REASONER BROS.,
ONECO, FLA.

When writing mention American Florist.

CHATER'S

PRIZE HOLLYHOCKS

Our seed of this have been saved from the finest and largest double flowers only and will produce flowers extremely double and in the best, brightest and most distinct colors. Sow now.

Double Pure White, per oz. \$1.00; ¼ oz. 30c.
 Lemon Yellow, Pink, Purple Red, Deep Rose,
 Salmon, Crimson, each per oz. \$1.50; ¼ oz.
 50c; trade pkt. 25c.

Chater's Hollyhocks, best double mixed, per oz.
 \$1.50; ¼ oz. 50c; trade pkt. 25c.

Double Hollyhocks, a new good mixture, per oz.
 \$1.00; ¼ oz. 30c.

CINERARIA Vaughan's International Mixture, trade
 pkt. (1000 seeds) 50c; 3 pkts. \$1.25.

Cineraria Hybrida, large flowering mixed, trade
 pkt. 25c.

Cineraria Hybrida, large flowering dwarf, mixed,
 trade pkt. 25c.

CALCEOLARIA Hybrida, choicest mixture, flowers
 beautifully spotted and marbled, brilliant
 colors, trade pkt. 50c.

CHINESE PRIMROSES.**SINGLE LARGE-FLOWERING FRINGED VARIETIES.**

	1000 seeds	250 seeds
White. Alba.	\$1.50	\$0.50
Red. Rubra.	1.50	.50
Chiswick Red, brilliant scarlet	1.75	.50
Mont Blanc, new large white.		.50
Kermesina Splendens, a very deep rich red	1.75	.50
Alba Magnifica, flowers large, snow- white, exquisite form.	1.70	.50
New Blue Primula.	1.70	.50
Fringed Primula, many colors mixed	1.25	.25
Fern-Leaved Mixed	1.10	.35

VAUGHAN'S INTERNATIONAL MIXTURE.

This mixture contains besides all the above named varieties, a number of other colors, selected from the best strains of American, French, English and German growers and we know it will give entire satisfaction. Pkt. (350 seeds) 50c; 5 for \$2.

Latania Borbonica, 100 seeds 25c; 1000 seeds \$2.00.
ASPARAGUS Plumosus Nanus, new seed just received, \$1.50 per 100; \$3.60 per 250; \$12 per 1000.

Indianapolis.

The May meeting of the Indianapolis Florists' Club was omitted, but few members attending; the hot weather with the rush of the planting season kept too many away.

The cut flower trade during the biggest part of May might be called dead, no life at all. Planting has been brisk since the rains started in. Weather is splendid for growing; it is very warm and sultry in spite of cooling rains. Good geraniums, coleus and alternantheras are scarce in this market. Vincas and other vines are nearly all sold out. Cut carnations are a heavy drug on the market. Roses are poor, being mostly mildewed and weak, with poor color. Shipped stock comes in mostly spotted and damaged. Outdoor flowers are fast blooming out, roses keeping up well, however.

At a prominent railroad man's funeral many well executed floral pieces were received. The body was shipped to Norwalk, Ohio. Mr. John Bertermann accompanied the party, consisting of many prominent railroad officials, and took charge of the flowers. The set designs kept splendidly, while of course bouquets and flat baskets somewhat lost their beauty. On this point I wish to make a few remarks. Much has been said about set floral designs, their uses at funerals and other occasions; the sentiment in the trade seems to have been against them from an artistic standpoint, but I fail to see that the general public has taken up with that idea very much excepting the majority of the upper ten. I take it for granted that a set piece made up in good shape is a delightful sight for most anybody. Much has been said against set pieces at exhibitions; I have taken personal notice and have talked to many in the trade, and our observation was that twenty people admired a design, while one would look at a bed or vase of flowers. Now when you do away with the design feature you will lose patronage; the exhibition will lose its variety and good drawing attraction.

The annual music festival is on this week, but there seems not the same enthusiasm of several years ago; very few flowers are used now, and outside of a few palms and other foliage plants no decorations are used in the hall. The female singers are paid enormous sums; the general impression is that prices in that direction are at their highest limit this season, as many music festivals are operating at a big loss.

A. Pahud has erected an additional greenhouse 100x20 for roses; he reports a big vase trade for Crown Hill Cemetery.

Harry Balsey of Detroit has been around the greenhouses hunting up orders.

The night of the 24th was a terrible one, thunder storms and counter thunder storms, with a continuous display of lightning, an enormous amount of rain, with light hail falling for some time. No damage was done excepting some uprooting of shade trees and other slight damage to roofs and skylights. W. B.

JUNE OFFER. Per 100

1000 Alternantheras, red and yellow bft	\$2.00
1000 Single Scarlet Geraniums, 4 in. pots	4.00
200 Double Petunias, fine	4.00
1000 Verbenas from seed	2.00
Pansy Seed, ready June 15th, \$1.00 per ounce.	
Cash with order, please.	

JOS. H. CUNNINGHAM, Delaware, O.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

GARDINER'S CLEARANCE OFFER OF SURPLUS STOCK.

	Per Doz.	Per 100
Lilium Auratum, 7 to 9-in.	\$.50	\$3.25
" " 9 to 11-in.	.65	4.50
" Melpomene, 7 to 9-in.	.50	3.50
Caladium Esculentum, No. 1,	.50	3.50
" " No. 2,	.40	2.50
Gladiolus, Lemoine's mixed.	.20	1.00

	Per Doz.	Per 100
Gladiolus, finest mixed	\$.20	\$1.00
Gloxinias, finest mixed	.60	4.00
Begonias, single, 6 colors	.35	2.00
Galla Lily, spotted	.50	3.50
Hyacinthus candicans	.20	1.00
Tuberose, Pearl	.10	.50

All the above are sound and in first-class condition. Five per cent. discount for cash with order.

Orders booked now for Lilium Harrisii, Lilium Longiflorum, Lily of the Valley, Freesias, Roman Hyacinths, Narcissus Paper White, Grandiflora and Von Sion, Lilium Candidum, etc.

Send a list of your wants, stating kinds and quantities, for estimate.

JOHN GARDINER & CO.,

631 Market St.,

PHILADELPHIA, PA.

Public Sale.

Broad Street Floral Emporium, Broad and South Streets, Philadelphia,
A. W. Boerner, Proprietor,

will at public auction sell building, lease, fixtures, and the entire stock consisting of palms and other decorative plants. Also stock of roses in pots, and other salable plants, stock wire designs, jardinieres, baskets and made up designs.

A. W. BOERNER, 521 TO 525 S. BROAD ST., PHILADELPHIA, PA.

PALM

Seed.

All Chamaecrops, Phoenix and many others now in stock. A full list on application.

FOR AUGUST DELIVERY.

	Per 100	Per 1000	Per 5000
Kentia Belmoreana	\$1.25	\$10.00	\$45.00
Kentia Forsteriana	1.25	10.00	45.00

J. L. SCHILLER, Rutherford, N. J.

PANSY X SEED.

The Jennings strain of finest American grown Pansy Seed. New crop ready June 15th. The grandest combination of colors ever sent out.

The largest flowering.
The strongest growing,
and the most beautiful colors in great variety. Very finest mixed.

Pkt. of 2500 seeds, \$1.00; 1/2 oz. \$3.00; 1 oz. \$6.00; 3 ozs. \$15.00. White and yellow in separate pkts., same as above. Half pkts. 50 cts.

CASH WITH ORDER.

E. B. JENNINGS, L. B. 254, Southport, Conn.
Grower of the finest Pansies

THE COTTAGE GARDENS,

C. W. WARD, Mgr. QUEENS, L. I., N. Y.

WHOLESALE SPECIALTIES:

Carnations, Chrysanthemums,
Cannas, Geraniums.

NOVELTIES FOR THE TRADE.

New Asparagus Sprengeri 30c. New Spirea Anthony Waterer 25c. New Climbing Meteor Rose 30c. New Golden Rambler Yellow Souper, New Crimson Rambler \$5 per 100. New Justicia. New Double Rudbeckia, New Cannas, Carex Japonica, Bougainvillea, Gladioli, Dbl. New Life Geranium, Geranium Agnes Kelway, best pink. Send for Catalogue of Novelties and Trade Bulbs at low prices. A. BLANC & CO., Japanese Jardinieres at very low prices. Philadelphia, Pa.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

An Unusual Chance to BUY LARGE PALMS.

Our palm house is crowded, and to make room we offer the following, very cheap for cash.

2 LATANIA BORBONICA, height from tub 8 feet, 20-inch tubs, 10 leaves on each.

1 LATANIA BORBONICA, height 8 feet, 10 very large leaves spreading 12 feet; 20 inch tub.

1 PHOENIX RECLINATA, height 9 feet, 22 leaves, spreading 16 feet; 20-inch tub.

2 PHOENIX RECLINATA, height 7 feet, 7 leaves; 12-inch pots.

1 KENTIA FORSTERIANA, height 6 1/2 feet, 8 leaves, spreading 9 feet; 12-inch pot.

1 KENTIA FORSTERIANA, height 7 feet, 7 leaves; 14-inch pot.

1 PANDANUS UTILIS, height 7 feet, spreading 8 feet; 12-inch pot.

Also several more slightly smaller.

FOR PARTICULARS APPLY TO

H. F. A. LANGE,
WORCESTER, MASS.

NEW SINGLE PARISIAN VIOLET 'PRINCESS OF WALES'—A grand acquisition. Large round flowers of deep violet, stems 8 to 10 inches long; a great cropper and fine grower. Strong plants, 2 1/2-in. pots, \$1.50 per doz.; \$10 per 100. DWARF WHITE DAHLIA CAMELLIAFLORA ALBA—A most valuable plant for cut flowers or bedding. Strong plants, 4-in. pots, \$2.00 per doz.; 2 1/2-in. pots, \$1.50 per doz.; \$10.00 per 100. FICUS ELASTICA and BELGICA—Splendid young plants, 4-in. pots, 4 to 6 leaves; \$3.00 per dozen; \$25.00 per 100.

ISMENE CALATHINA—Nothing better for cut flowers. Strong flowering bulbs, \$2.00 per dozen; \$15.00 per 100.

GIANT DAISY MME. GRELLERT—4-inch pots, \$1.50 per dozen. 2-inch pots, 75c per dozen.

CENTAUREA MARGARET (Seed)—A grand novelty for summer and fall cut flowers. Pure white and Sultan yellow, 25c each.

ADDRESS JOHN G. HEINL & SON,
TERRE HAUTE, IND.

Tomato Plants

Stone, Paragon and Royal Red.

SWEET POTATO SETS, CELERY THINNINGS for transplanting and CABBAGE PLANTS.

20 cts. per hundred; \$1.00 per thousand. Larger quantities at lower rates. Cash with order please.

R. VINCENT, JR. & SON,
WHITE MARSH P. O., Baltimore Co., MD.

NEW ROSE

"Mrs. PIERPONT MORGAN"

Listen for a moment to what a voice from far off Springfield, Illinois, has to say about our young stock of this rose:

May 4, 1896.
"EDWIN LONSDALE, Chestnut Hill, (Station 11), Philadelphia, Pa.

"DEAR SIR:—Box of 'Morgan' rose plants arrived Saturday in good shape. **Fine Plants.** I would like to know how you produce plants of such size in a two (2) inch pot?"

All I can say is that it is allowing to the natural vigor of the variety, and perhaps to some extent to the natural rose growing qualities of our soil.

We have a few more left of the same size. Order early or you may get left, for I do not know of a more profitable variety to grow for cut flowers than **MRS. PIERPONT MORGAN.**

Don't forget our address:

EDWIN LONSDALE, Station H,
Chestnut Hill, PHILADELPHIA, PA.

Home of the Queen of Roses.

BELLE SIEBRECHT.

NOW READY

Send in your orders early; the demand is great. The finest pink ROSE ever introduced.

2-inch pots. \$12.00 per 100

2-inch pots. 55.00 per 500

2-inch pots. 100.00 per 1000

3-inch pots. 18.00 per 100

NOTICE:—All orders filled in strict rotation.

SIEBRECHT & WADLEY,

Rose Hill Nurseries, NEW ROCHELLE, N. Y.

Rogers Park Floral Co.

GOOD FIRST CLASS STOCK.

	In 2½-inch pots	per 100	per 1000
Am. Beauties	5 00	\$40 00	
C. Testout	4 00	35 00	
Kaiserin Victoria	4 00	35 00	
La France	4 00	35 00	
Belle Siebrecht	4 00	35 00	
Bridesmaids	3 00	25 00	
Brides	3 00	25 00	
Perles	4 00	35 00	
Meteors	3 00	25 00	
Meteors, 4 inch pots	5 00	40 00	

Orders for less than 100 not accepted. Ready for shipment now.

Send Orders to 41 Wabash Ave., Chicago.
Mention American Florist.

ROSES. NOW READY.

First-Class Stock, 2½-inch pots.

	Per 100	Per 1000
PERLES	\$3.50	\$30.00
METEORS	3.00	25.00
BRIDES	3.00	25.00
BRIDESMAIDS	3.00	25.00

A. G. PRINCE & CO.,
88 Wabash Ave., CHICAGO.

ROSES.

PERLE and M. NIEL plants, from 2½-inch pots. \$4.00 per 100.

PERLE, SUNSET, MERMET, VICTORIA, MME. TESTOUT, ALBANY, M. NIEL, PINK and WHITE LA FRANCE, strong, healthy plants, from 3-inch pots, \$7.00 per 100. I will send sample to parties wishing to buy.
MOON VINE, \$3.00 per 100. Terms cash with order.

JOSEPH HEINL, Jacksonville, Ill.

ROSES.

Fine stock from 2½-inch pots, \$4.00 per 100.
ETOILE DE LYON, MAMAN COCHET,
MRS. DEGRAU, BRIDE,
MARIE GUILLOT, BRIDESMAID,
MARY WASHINGTON, MME. HOSTE,
MERMET, MME. F. KRUGER.

TERMS CASH.

NATIONAL PLANT CO., Dayton, O.



YOUR EYES ARE IN FRONT. Why? Not to facilitate walking backward certainly. Are you looking ahead? If I am to deliver those **JAPANESE LONCIFLORUMS** on time (Sept. 25th), I must have your order at once. Are they **BETTER THAN THE BERMUDA** grown bulbs? You bet! My orders to date are away ahead of last year's at this time. Do they cost more? No, they cost less; and I guarantee them to be positively free from disease; to be all single crowns; and to deliver by **SEPT. 25th.** Write me for prices today. Tell me how many you will need; also tell me your other wants in forcing stock. I will quote you lowest import figures. I handle the best Dutch, German, French, English, California and Bermuda Bulbs, also Azaleas and Lily of the Valley. Your interests are my interests; I shall be pleased to give my customers the benefit of my 19 years' experience in this special line. Write me to-day.

G. C. WATSON, IMPORTER AND JOBBER IN, 43 N. 10th St., Phila., Pa.
BULBS, ROOTS AND PLANTS.

Roses, Roses and Roses.

All the best NEW and STANDARD varieties for winter forcing now ready in A1 stock, and of

MRS. PIERPONT MORGAN,

the most profitable known variety for forcing, and of the easiest possible culture. I have a grand lot now ready. Write for special prices on this variety for large lots to

JOHN N. MAY, Summit, New Jersey.

Mention American Florist.

REINBERG BROS.,

CLEARING OUT SALE OF FINE YOUNG ROSE PLANTS:

Meteors, Kaiserine and Golden Gate, strong, healthy plants out of 2½-inch pots, **\$2.00 per hundred.**

Send orders to **51 Wabash Ave., CHICAGO, ILL.**

ROSES

BEAUTIES, MERMETS, CUSINS, TESTOUTS, NIPHELOS, PERLES, BRIDES, BRIDESMAIDS, METEOR, HOSTE, LA FRANCE, WOOTTON, WATTEVILLES, AUG. VICTORIA, 2 3 and 4-inch pot plants. Cash with order. Owing to number booked, they will be executed in rotation to assure prompt delivery. Order early.

Address for quotations, **VILLA LORRAINE ROSERIES, MADISON, NEW JERSEY.**

FOR SALE.
FINE, HEALTHY ROSE STOCK.

Sure to give satisfaction; taken from stock that took First Prizes at Chicago Flower Show, 1895. Terms cash. Samples will be sent on application at the following prices:

	Per 100
500 LA FRANCE, 3-inch	\$5.50
570 WOOTTONS, 3-inch	5.50
225 KAISERIN, 3-inch	5.50
648 PERLES, 3-inch	5.50
275 PERLES, 4-inch	7.00
690 SIEBRECHT, 2½-inch	10.00
700 BRIDES, 2½-inch	3.50
190 KAISERIN, 2½-inch	3.50
575 PERLES, 2½-inch	3.50
CALIFORNIA VIOLETS, 2½-inch	5.00

POEHLMANN BROS.,
MORTON GROVE, ILL.
Cook County, Mention American Florist.

AMERICAN BEAUTY

Plants from 2½ and 3-inch pots.

FRANK L. MOORE,
CHATHAM, NEW JERSEY.

ROSES.

BRIDES, METEORS, MERMETS and LA FRANCE, \$3.50 per 100; \$30.00 per 1000.

WOOTTONS, \$4 a 100; \$35 a 1000. 3 in. \$6 a 100.

Strong, healthy stock. 25 at 100, and 250 at 1000 rates. Cash with order.

R. F. TESSON,
West Forest Park, ST. LOUIS, MO.

100,000 Strong Field-Grown ROSES

(Budded and own roots) for Fall delivery.

Try our new **BIOTA AUREA NANA.**

Thousands of **Olea Fragrans, Azaleas, Camellias and Banana shrubs.**

Prices on application.

P. J. BERCKMANS, Augusta, Ga.

A FINE LOT OF

Meteors,
and Perles,

Now ready, out of 3 or 4-inch pots. Write for sample and prices to

GEO. A. KUHL, Pekin, Ill.

5000 Roses for Sale. 5000

From 2½-in. pots, of the leading forcing varieties. Will sell at the lowest possible prices for cash.

Also 10,000 Carnations for field planting, for sale or exchange. Address

IDA M. FRAVELL, Marion, Ind.

Do You Need Roses?

I have 25,000 good ones out of 2½-inch pots, and can give you prices that will open your eyes.

BRIDES	3 cts.
BRIDESMAIDS	3 cts.
MERMETS	3 cts.
PERLES	4 cts.
METEORS	4 cts.

This stock is in good shape. Cash with order.

CHAS. KOEPPEN, SEDALIA, MO.

THE NEW DIRECTORY
IS NOW READY.

Wilkes-Barre, Pa.

The building operations and general improvements, which Mr. I. G. Marvin had contemplated for some time are now being carried out on an extensive scale. The constant demand for carnations has induced Mr. Marvin to introduce some of the best varieties known and grow them in much larger quantities than heretofore; he has remodeled his houses to suit the purpose and will take up about 50,000 feet of glass with carnations alone. Aside of this he has now in course of erection eight additional houses, each 100x18½, intended for roses. The houses will run east and west, with the short, three-quarter span to the south. Butted glass, concrete floors and walks are some of the features introduced. The entire plant will be heated by steam, two 50-horse power boilers will be placed in position as soon as the boiler house is completed. In addition to the greenhouses Mr. Marvin is also building four dwelling houses, two of which are intended for his help. Mr. B. Shaw, a successful grower and a man of wide experience, will take charge and assist Mr. Marvin in the general management of the business.

Eldridge & Co. have remodeled and considerably improved their store on Franklin street, adding a commodious and attractive conservatory to their store. Mr. Humphrey, of Eldridge & Co. who has been on the sick list, is out and about once again. Bert Cokely, of Scranton, was a recent visitor. HOMO.

Norfolk, Va.

Memorial Day, which was celebrated on Thursday, the 21st, at Norfolk, and on Friday, the 22nd, at Portsmouth, was generally observed, the public turning out en masse to decorate the graves, confederate monument, etc. The demand for cut flowers, memorial designs, plants, etc., at either city, was quite brisk, though the prices realized were somewhat below the average as compared with those of previous seasons. First-class stock in the local market was rather scarce, but in lieu of good stock there was an abundance of outdoor flowers of all kinds and varieties, which the florists utilized to good advantage.

The Tide-Water Floral Co., Harris & Petrie, proprietors, intend adding three more carnation houses, each 100x18, to their plant at Port Norfolk.

Taggart & Wilbur, the veteran florists, are, as usual, enjoying a good share of the local trade and report business as brisk and encouraging. HOMO.

Greenhouse Building.

St. Johnsbury, Vt., C. F. Gibbs, one addition, 25x50, with boiler room.

Herkimer, N. Y., C. C. Baum, one commercial house.

Pearl River, N. Y., Robt. McMillan, one commercial house 18x100; 4 houses remodeled.

New Rochelle, N. Y., Alex McConnell, one conservatory; E. Dickson, 2 commercial houses each 20x110.

Bridgeport, Conn., Jas. Horan, 2 commercial houses each 20x130.

Bulbous Begonias.

LAING'S STRAIN. In separate colors.

Lilium Longiflorum, Tuberoses, Spiræas, etc. Now on hand.

Ask for prices.

HULSEBOSCH BROS., Englewood, N. J.

CANNAS.

FINE PLANTS FROM POTS. \$4.00 per 100; \$35.00 per 1000.

BRENNINGSII,

" Variegated,

PAUL MARQUANT,

EXP. GRAMPBEL,

MME. CROZY,

MARQUISE DE L'AIGLE,

J. WILKINSON ELLIOTT,

FLORENCE VAUGHAN, dormant bulbs only, @ \$8.00 per 100.

GREENHOUSES,
WESTERN SPRINGS, ILL.

VAUGHAN'S SEED STORE,

84 & 86 RANDOLPH STREET,
CHICAGO.

Mention American Florist.

HERR'S CARNATIONS.

WM. SCOTT.....

\$1.25 per 100; \$10.00 per 1000

CUT CARNATIONS.

Orders for cut carnations filled at \$1.00 per 100. None west of Pittsburg.

CASH WITH ORDER OR C. O. D.

L. B. 496.

ALBERT M. HERR, LANCASTER, PA.

Mention American Florist.

CARNATIONS

Do not fail to order some of the BRIDESMAID CARNATION. The best pink to date. Plants from flats, \$5.00 per 100; \$40.00 per 1000.

We also have to offer the following varieties from flats. Sold out of all others. NO RUST.

	Per 100	Per 1000
METEOR.....	\$5.00	\$40.00
STORM KING.....	5.00	40.00
ROSE QUEEN.....	4.00	30.00
UNCLE JOHN.....	3.00	25.00
E. A. WOOD.....	3.00	25.00
DAYBREAK.....	3.00	25.00
WM. SCOTT.....	2.50	20.00

NEW CHRYSANTHEMUMS.

MRS. W. C. EGAN, }
TIPPECANOE, } 50c each; \$5 per doz.; \$35 per 100.
AMARANTH, }

New Begonia Lillian Harrington.

A cross between Alba and Rubra. Florets and sprays very large and of a deep rose color. The bronze green foliage and large panicles of flowers make it very attractive and desirable. 2½-inch pots, \$10.00 per 100.

Dwarf Scarlet Salvia Kobold.

Dwarf growth, only half the height of Splendens. Its early and free continuous blooming with its dwarf habit makes it one of the best bedding plants, and so much more attractive than the old tall growing Salvia Splendens now in use. 2-inch pots, \$4.00 per 100.

Pandanus Veitchii.

We still have a few plants from 8-inch pots, very fine and good color, at \$3.00 each.

Swainsona Galegifolia Alba.

A most desirable white cut flower, very free. 2-inch pots, at \$4.00 per 100.

Antirrhinum Majus Alba.

The best of the whites for winter forcing, as well as fine bedding plants. Fine stock. 2-inch pots, \$4.00 per 100.

F. DORNER & SONS CO.

LA FAYETTE, IND.

Mention American Florist.

AUCTIONEER.

I will come and sell your surplus stock of plants, bulbs, etc.

Having had over 30 years' experience as a florist and nurseryman I know the value of plants, and can guarantee satisfaction.

Correspondence Solicited.

H. YUELL, P. O. Box 462, Conneaut, O.

THE DIRECTORY

FOR 1896

IS NOW READY.

PRICE \$2.00.

AMERICAN FLORIST CO.

CHRYSANTHEMUMS, for June planting, finest stock in the country. Send us your list to price.

ROSES—The New Pink Soupert, 2½-inch, @ \$4.00 per 100.

ROSES—Clothilde Soupert, 2½-inch, @ \$4.00 per 100.

THE LAST CALL!!

IVORY AND DELLA FOX CARNATIONS, \$10.00 per 100; \$75.00 per 1000.

ROSE QUEEN, BRIDESMAID, ALASKA, PEACHBLOW, METEOR, LITTLE CEM, MINNIE COOK, \$5.00 per 100; \$40.00 per 1000.

WM. SCOTT, DAYBREAK, LIZZIE McCOWAN and PRES. CARFIELD, \$2.00 per 100; \$15.00 per 1000.

Our stock of the above is fine, and is now in soil, ready for the field.

Do not fail to try our new White Carnation Ivory. Send in your orders NOW.

GEO. HANCOCK & SON,
Grand Haven, Mich.

CARNATIONS

Orders solicited for ROOTED CUTTINGS.

KOHINOOR takes the lead.

Other Novelties of the Standard sorts at standard prices. All healthy and strong.

C. J. PENNOCK,

The Pines. KENNETT SQUARE, Chester Co., PA.
Mention American Florist

CARNATIONS.

ROOTED CUTTINGS,

In large quantities, see list of varieties in FLORIST, March 21st. Send for price list.

H. WEBER & SONS, Oakland, Md.

Mention American Florist.

DO YOU WANT CARNATIONS?

If so, why not GROW the BEST?

50,000 ROOTED CUTTINGS, including Daybreak, Wm. Scott, Goldfinch, Lizzie Gilbert, Emily Plesson, Lizzie McGowan, Tidal Wave, S. Spray, Minze's White, &c. Can do you justice in quality and prices. Write me before you buy. Address CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

CARNATIONS.

Rooted Cuttings in immense quantity, strong and well-rooted and particularly free from rust.

Daybreak, Wm. Scott, Thos. Cartledge, Tidal Wave \$2.00 per 100; \$15.00 per 1000
Lizzie McGowan, Silver Spray, Portia, \$1.50 per 100; \$12.00 per 1000.
Lady Campbell Violets in any quantity, \$1.00 per 100; \$8.00 per 1000.

JOS. RENARD, Unionville, Chester Co., Pa.

Della Fox and Annie H. Lonsdale

ALL SOLD.

MYERS & SAMTMAN, Chestnut Hill, Phila.

GENERAL COLLECTION OF PLANTS.

	Per 100
Amaryllis (Empress of India), 4 and 5-inch.....	\$25 00
Ageratum, White and Blue.....	2 00
Alocasia.....	4 00
Asparagus tenuissimus, 4-inch.....	8 00
Asters, assorted.....	2 00
Cuphea, 3 kinds, the best.....	2 00
Canna, Common, mixed.....	1 00
Co'eus, all kinds.....	\$25.00 per 1000
Calla.....	\$4.00, \$6.00, 20 00
Cactus, in variety.....	5 00
Century Plants.....	\$10 to 15 00
Cyperus alternifolius.....	4 00
Croton.....	\$3 to 10 00
Cyclamen, 3 and 4-inch pots.....	8 00
Dracena indivisa.....	\$10 to 20 00
Epiphyllum, Lobster Cactus.....	8 00
Eulalia zebrina, Zebra Grass.....	5 00
Euphorbia splendens.....	5 00
Fuchsias, general collection.....	2 00
Gladiolus.....	1 50
Geraniums, all kinds.....	\$3 to 4 00
Helianthus.....	4 00
Ivy, all kinds.....	\$3 to 10 00
Jasminum, 3 kinds.....	5 00
Manettia, 2 and 3-inch pots.....	3 00

	Per 100
Alternanthera.....	2 50
Swainsona.....	5 00
Primula obconica, 3-inch pots.....	\$3 to 6 00
Bouvardia.....	5 00
Ivy Leaved Geranium.....	3 00
Rose Geranium.....	3 00
Lonicera Halleana, 2-inch.....	2 00
Bromelia Lily.....	6 00
Sword Ferns.....	5 00
Begonia Metallica, 3 inch.....	3 00
Semperflorens gig. rosea, 3 inch.....	6 00
Manicata Aurea Mac., 3-inch.....	10 00
Argentea Guttata, 3-inch.....	6 00
Bertha de Chateau Rocher, 3-inch.....	3 00
Rex, 3-inch.....	6 00
Leonore, 3-inch.....	2 00
Glaucophylla scandens.....	4 00

	Per 100
Parrot's Feather.....	\$3 to \$5 00
Polyanthus.....	3 00
ROSES, Monthly and Tea.....	3 00
“ Hybrid Perpetual.....	2 50
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Bedding Stock of all kinds.	
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BLUE PERFECTION.

As a cut flower, read what two of the oldest and best known houses of Philadelphia say:

MR. ALBERT KNAPPER:—This season we have worked up quite a little trade on Myosotis, and consider it a good cut flower for the retail florist, which I think will grow more in favor.

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MR. ALBERT KNAPPER:—We take great pleasure in recommending a good article, and can say that your Myosotis is a fine, large, strong flower, of a grand color, and the best we have seen for a great while.

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EASILY HANDED.

NO DISEASE.

ORDER NOW.

Has averaged at the wholesale market this winter from \$1.50 to \$2.00 per 100 flowers. Treatment similar to Violet Marie Louise or Carnations, from 40 to 50 degrees.

PLANTS, 2-in. pots, ready now, per 100, \$5.00.

ROOTED CUTTINGS, per 100, \$3; per 1000, \$25.

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ALBERT KNAPPER, Frankford, Phila., Pa.

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IS NOW READY.

PRICE \$2.00.

American Florist Co.,

DRAWER 164

CHICAGO.

CLEMATIS.

Two years, all large flowering, choice named, leading kinds . . .	\$2.50	\$30.00
Strong, heavy plants . . .	35c each,	4.00 30 00
II. P. Roses, 2 years, 4-inch pots . . .	1.50	10.00
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Daisies dbl. Eng. Snowcrest, Snowflake	.50	1.00

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VINCA MAJOR VARIEGATA,

in 4 and 4½-inch pots.

FIRST SIZE.	\$10.00 per 100
SECOND SIZE.	8.00 per 100
In 2-inch pots	2.00 per 100

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PROFITABLE BLOOMS.

CUSHMAN'S GLADIOLUS BULBS

planted about **June 1st** throw fine spikes in **September** when flowers are scarce.

TRY A FEW.

Very fine mixed, \$1.00 per 100; \$8.00 per 1000. Cash please.

CUSHMAN GLADIOLUS CO., Euclid, O.

PINK IVORY,

(MISS AGNES L. DALSKOV.)

The invincible New Chrysanthemum, Strong, healthy plants from 2-inch pots \$1 per dozen; \$5 per 100; \$40 per 1000.

SPECIAL PRICES ON LARGER QUANTITIES.

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Special prices, Ohio, Illinois, Kentucky, 331 Madison Ave.,
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CONSIDER NOW

What 'mums you will need for Nov. 1st to 15th. Remember this is the time when everybody has "mums to burn," so plant only the best for

MID-SEASON.

WHITE.	Per 100
MAYFLOWER	\$8.00
MUTUAL FRIEND	3.00
NIVEUS	3.00
YELLOW.	
EUGENE DAILLEDOUZE	3.00
GOLDEN WEDDING	4.00
GEORGIANA PITCHER	5.00
PINK.	
HELEN BLOODGOOD	5.00
HARRY BALSLEY	3.00
MRS. S. T. MURDOCK	5.00
CRIMSON.	
FISHES'S TORCH	3.00
GEO. W. CHILDS	3.00
JOHN SHRIMPTON	3.00

From the fact that all these varieties are of easy culture, pure and pleasing in color, we consider them best for midseason.

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and not only have the LARGEST and BEST collection in America, but guarantee our stock true to name. We are now filling orders for trial grounds. Every SEEDSMAN and FLORIST interested in DAHLIAS should send for our new distinctive Trade List.

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Wm. Simpson.

CUT OCT. 15TH.

The Earliest Large CHRYSANTHEMUM. Price to the Trade, \$17.50 per 100; \$100.00 per 1000.

JOSEPH HEACOCK, Wyncote, Pa.

E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

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Syracuse, N. Y.

The severity of the weather last winter has been fully attested by the heavy loss in grape vines, pears, peaches, cherries, and plums; in many gardens raspberries and blackberries have been killed to the ground, and the outlook for the fruit grower this season is a very poor one indeed. Shrubbery, too, has suffered considerably. I have seen syringas 10 feet high killed to the ground, and many more tender shrubs have shared the same fate.

Trade has ruled quiet in all departments, the long continued drouth has seriously affected planting out, and many buyers are growing very cautious, not being in too much of a hurry, as many expensive lessons have been bought through the effects of late frosts, but everyone will be in a rush to have their places in shape by Decoration Day. From the orders already in, the prospects are that very little if any stuff will be left over, consequently the florists feel happy.

Louis Guillaume, the East Onondago florist, has rented the Day place; this is one of the pioneer floral establishments in this section, and has been run for some years by Mrs. Hayden.

H. Burt has had great success in forcing strawberries the past winter, and contemplates growing them on an extensive scale next winter. The specimens shown in his store window were very fine and attracted much attention. H. Y.

Worcester, Mass.

Flowers are very plentiful, and the cooler weather we have had has improved the quality immensely, especially in roses and carnations. Trade has been very fair, and considerable funeral work has been turned out. Bedding out is in full swing, and the men handling bedding stuff are very much rushed, as everybody waited for the rain, and now must have their beds planted before Memorial Day.

The display at the horticultural exhibition May 14 was very creditable; notwithstanding the lateness of the call for tulips and hyacinths a very good showing was made. Good pansies, pelargoniums, azaleas and cut flowers in designs and vases made up the balance of the show.

After many weeks of dry weather we got a two days' rain that just saved us from heavy loss to the newly planted carnations. Out of door flowers are all faded; the deutzias all seem to be blasted this year, probably caused by the hard early frosts and the dry spring.

John Speciman paid us a short visit last week prior to his departure for Holland. A. H. L.

The Oaks Greenhouse Co., Jackson, Mich.

Per 100
Begonias in variety, 2½-inch pot plants \$2.50
Chrysanthemums, 2½-inch pot plants 2.50
R. Cuttings, standard vars. 1.00
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2½-inch plants 2.50
Glechoma Hederacea, R. Cuttings 50
Verbena, best strain 75
Vinca Variegata, R. Cuttings 1.00
Cuphea, Pilea, German Ivy, etc 1.00
If to be sent by mail add 10c per 100. Cash with order.
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Price \$2.00.

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EGYPTIAN AND AMERICAN LOTUS.

We have some excellent tubers of Nelumbium Speciosum and Nelumbium Intemum, which we offer in small or large quantities at lowest prices. Also several of the newer choice and scarce kinds. Now is the most favorable time to plant.

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Our stock of this regal aquatic is unusually fine and can be recommended as the best for all purposes and localities, with or without artificial heat. We offer strong plants from \$5.00 each upward. Place orders now for immediate or future delivery.

HENRY A. DREER, 714 Chestnut Street, Philadelphia.

30,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Extra fine plants, in bud and bloom, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, \$1 per 100; \$8 per 1000.

NO RUST OR MILDEW.

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We are the Largest Growers of Verbenas in the country.

Our plants cannot be surpassed.

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25 Rooted Cuttings of my NEW YELLOW MARGUERITE for \$2.00 by mail.

Nice 2-inch pot plants, ready for shift, 10 for \$1.00.

It is a pleasing shade of yellow, very floriferous, with a double row of petals, and stem 8 to 10 inches long. Sample blooms mailed on receipt of 10 cts.

Strong 2½-inch FISHERS for summer bloom, \$2.00 per 100.

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All A1 stock. Cash with order.

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Per 1000 Per 100
Golden Queen and Crimson Verschaffeltii and assorted young stock, 2½-in. pots.....\$15.00 2 00
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ROOTED CUTTINGS.

Golden Queen and Crimson Verschaffeltii
Coleus..... 6 00 \$.75
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Commencement Baskets in new styles,
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John Conley & Son,

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TIN FOIL

2 AND 4 DOMINICK STREET,

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which is absolutely perfect for modern
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ROCK BOTTOM PRICES.

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Is Now Ready.**

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Ventilating
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Write for Illustrated Catalogue.

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IMPROVED GLAZING!**GASSER'S ZINC JOINTS**

Makes a roof Air and Water Tight. No lapping. No
breakage from frost or medium sized hail. Saves fuel.
SEND FOR CIRCULAR.

J. M. GASSER, Florist,101 Euclid Avenue, **CLEVELAND, O.**

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RIST when writing to advertisers.

News Notes.

ALBION, MICH.—The Dysinger Sisters are making an addition to their greenhouse.

NORRISTOWN, PA.—E. Metcalf opened a flower store in the new borough market on May 5.

KEWANEE, ILL.—Walter and Leroy Hamilton are building a new greenhouse on 3d street.

HARRISBURG, PA.—Mrs. J. Humphrey has opened an attractive flower store at 319 Market St.

PONTIAC, ILL.—F. W. Custer expects to add one or two vegetable houses to his plant during the summer.

LANSDOWNE, PA.—D. T. Conner is building a handsome office and showroom in connection with his range of greenhouses.

ALBANY, N. Y.—Goldring Bros. have removed to their new store, No. 28 North Pearl St., a few doors north of Maiden Lane.

BURLINGTON, VT.—A. W. McIntosh is repairing the greenhouses on the Burton place for immediate use, and expects to erect during the summer several new houses.

FAIRBURY, ILL.—Kring Bros. intend building two or more greenhouses, one for violets and one for roses. They will probably enlarge their vegetable houses also. Milne & Son are thinking of adding another greenhouse to their plant.

MOUND CITY, MO.—R. B. Preston has sold a half interest in his florist business to J. V. Cannell, of Westboro, Mo., and they will add about 2,000 feet of glass this season. They will be in the market for a heater and ventilating apparatus.

ALBION, MICH.—Mr. A. H. Dew has entered into partnership with Mr. H. F. Dew of the Albion Floral Company. The former will have charge of the establishment in this place, 406 Michigan avenue, the latter travels in the interests of the firm.

NEW HAVEN, CONN.—In excavating for the foundation of a new building being erected adjoining the greenhouse of G. A. Dickerman on Chapel St., the contractor dug so close to the greenhouse that the walls fell down, water pipes were broken, and considerable stock destroyed. Mr. Dickerman has sued the contractor for \$1,000 damages.

Jones, McDuffee & Stratton, Plant Pots and Pedestals

of all grades, sizes and values, direct from the best Potteries of England, France, Germany, China Japan and the U. S.

WHOLESALE AND RETAIL.

120 Franklin St. cor. Federal, Boston, Mass.
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FLOWER POTS.

We Manufacture all kinds of Flower Pots, etc.
Making a Specialty of

Florist Standard Pots

Send for price list and samples (which will be sent free), and we know you will give us your order.

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WIND MILLS FOR PUMPING.

FAIRBANKS—GALV'D STEEL.

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50,000 Already Sold.

BOILERS FOR HEATING.

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Send for our new price list, with extra discounts. All of our Pots from 7-inch and upwards have our Patent Excelsior Bottom, which is a great advantage as it insures perfect drainage.

A FULL LINE OF BULB PANS.

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STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere. Our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

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We ship all goods from Cincinnati, guaranteeing lowest freight rates and prompt delivery.

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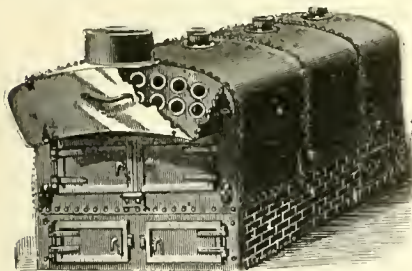
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For prices, apply to
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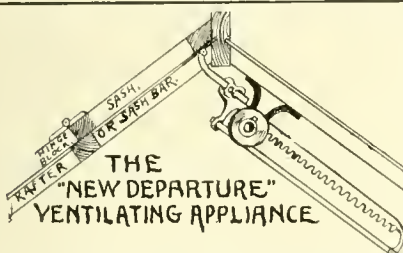
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GREENHOUSE AND OTHER BUILDING MATERIAL.

Send for our Illustrated Book
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Send for our Special Greenhouse Circular.

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D. CARMODY, Evansville, Ind.

Dear Sir:—Enclosed find remittance for ventilating appliance. I find it the best, cheapest and easiest to work I ever handled—no exceptions whatever.

Yours truly,
J. E. JACKSON, Gainesville, Ga.

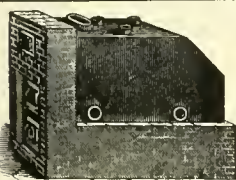


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Are Manufactured by

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Send for catalogue
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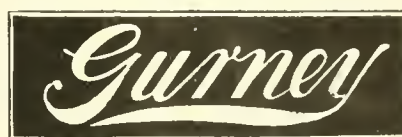
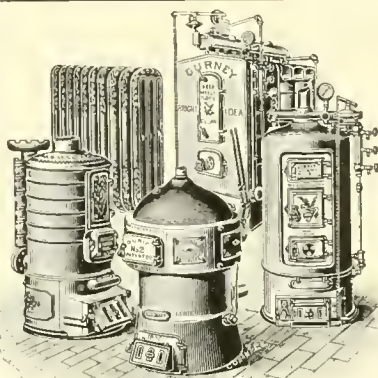


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We have had many years' experience in this line. We introduced Cypress for greenhouse construction. We have made many improvements in the construction of greenhouses. We carry in stock many different designs of Rafters, Sash Bars and everything else from the bottom of gutters up. Our facilities are large, and we are prepared to furnish on short notice material of our own designs or any special designs, and all of open-air-dried clear Cypress Lumber which we have bought for many years of one party because this particular growth of Cypress is as soft as White Pine, and has none of the knots, sap and other defects so common to White Pine. Every foot of our stock is guaranteed Spot Clear. Write for circulars and estimates. No trouble to furnish plans when necessary.

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HOT • WATER • HEATERS AND STEAM • BOILERS.

They possess to the highest degree the essential elements of construction which place them in the foremost rank for GREENHOUSE REQUIREMENTS.

CAPACITIES FULLY GUARANTEED.

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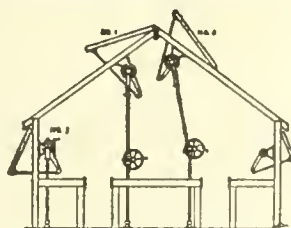
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STANDARD VENTILATING MACHINE.

NONE
EQUAL IT
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Strength
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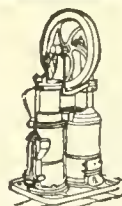
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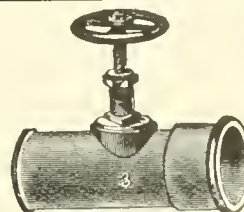
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FLINT, Mich.—Walker Bros. intend building two new greenhouses this summer for the growing of roses and carnations. One is to be 10x65, the other 40x80, both with 10x12 light and steam heating.

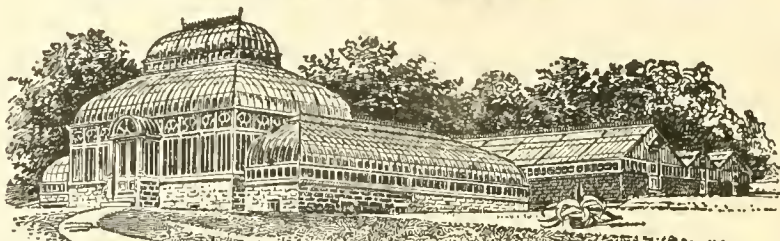
STAMFORD, CONN.—M. J. Callahan, formerly gardener to Mrs. W. B. Ogden, High Bridge, N. Y., has leased the Lockwood greenhouses on Lockwood avenue and is busy repairing them for a local trade.

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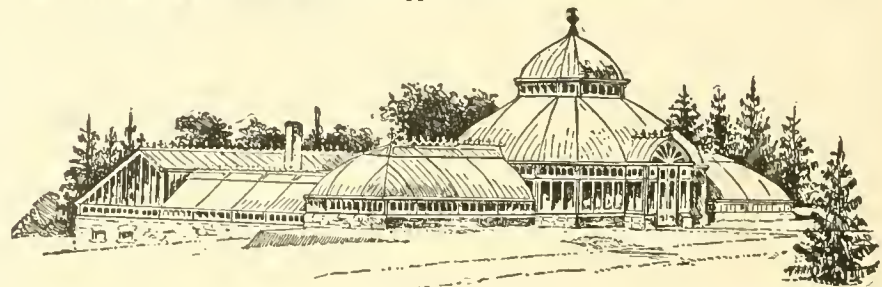
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Vol. XI

CHICAGO AND NEW YORK, JUNE 6, 1896.

No. 418

THE AMERICAN FLORIST

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ton, secretary; H. B. BEATTY, Oil City, Pa. treasurer.
The twelfth annual meeting will be held at Cleve-
land, O., August, 1896.

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THE new directory contains a total of 9,528 names and addresses, of which 5,258 are florists who do a general local trade, having greenhouses and retailing the product of same, 797 are florists who grow for the wholesale market only, 645 are retail store florists who have no greenhouses, 52 are wholesale commission dealers in cut flowers, 1,524 are nurserymen, 543 combine the business of florist and nurseryman, 364 are seedsmen, 248 combine the business of florist and seedsmen, and 97 who combine all three branches of the business.



Solid Beds Versus Raised Benches.

At the present time probably 95% of the Tea roses grown under glass in this country are planted upon benches; we must not suppose, however, that 95% of the rose growers of America have tried the various systems or methods of growing, and as a result of careful experimenting have adopted the bench as the best and most satisfactory. It is probably safe to say that at least three-fourths of those who raise roses for the market to-day have begun to do so during the last 12 years, during which time practically all the prominent growers who have taken pen in hand for the benefit of their fellow craftsmen have advocated the raised bench, and new recruits have adopted it as a natural sequence.

It is a fact I believe that the rose bug was mainly responsible for the abolition of the solid bed and the adoption of the shallow raised bench, it had got such a good foot hold on the few establishments then existing and seemed to view with disdain all efforts to eradicate him, that people gladly tore out their old solid beds and replaced them with benches, hoping in that way to completely banish him from the houses. Looking at the rose bug from this stand point it has probably done more for than against the rose, the bench proving to be a much more congenial place than the solid bed of that period, which was generally nothing more than the natural soil raised a few inches and the paths depressed a few inches, with little or no provision for drainage; the result was that the dropping of the water from the plants while syringing daily during the winter soured the soil, interfered with the root action and made it impossible to secure any satisfactory growth, at least during the short days of winter. Anyone changing from such beds to properly constructed benches with pipes for heating underneath were so well satisfied with the result that they have never since wanted to hear any thing said about solid beds.

It may be asked what are the defects of raised benches? Perhaps the expense is the worst fault, not the first cost but the constant expense. It costs \$1.00 per running foot more or less to put up good hemlock benches in the regular three-quarter span rose house, and the average life of such benches is not over 5 years

with considerable repairs during the last three years of their existence. Quite a good deal of valuable time is lost each summer while the benches are being repaired and particularly when new ones are to be put in. As they get old they certainly do not add to the good appearance of the house, and there can be no question that old decaying wood is not a good surface for the roots to spread out upon.

Some of the advantages of raised benches are, good drainage, economy of space, easy of access for cleaning, tying, watering, cutting, etc., makes possible such arrangement of the heating pipes as to evenly distribute the heat all through the house, adaptation to almost any style of house so that each bench may have its full share of light and sun, and above and beyond all the fact that some of the very best roses ever produced were grown on raised benches. Let us now see if as many good points can be claimed for the solid bed and at the same time keep down the list of bad ones. The one great advantage they can claim is permanency. Properly built they cost more perhaps than the very best bench, but they are practically indestructible, consequently cheaper in the end. If their construction is not faulty the drainage is more perfect than is any raised bench. More soil can be used, which while some authorities object to as being detrimental is in my opinion very desirable, especially if the plants are carried over a second year. Equally good results have been obtained in midwinter, and much better in the late spring and early summer; the greater depth of soil and the cooler bottom with more even moisture gives a stronger stem and finer bloom with less tendency to mildew and red spider. There is no hiding place for litter and rubbish such as benches furnish, so the house is liable to be kept cleaner and sweeter on that account. The only serious objection I have to solid beds is the difficulty in spreading the heating pipes, and the extra space that must be given up to walks. No bed should join the outside wall, space must be reserved there for walks and the bulk of the pipes, the balance to be hung along the side of the center path. The regular three-quarter span is hardly suitable for solid beds, the plate on the south side must be a little higher in order to have enough head room, and the one on the north side should be lower to do away with the necessity of raising the beds so very high; five feet from ground line to plate on the south side and six feet on the north is about right.

A house 22 feet wide gives good space for three beds of 5 feet each and four paths, the south one being 30 inches, the two center 18, and the north walk 24. The beds can be raised one above the other six inches so there is little chance to shade each other. A good steep roof on the south side is very desirable in midwinter,

an angle of 40° to 45° has proved to be about right.

The ideal solid bed in my opinion is the one constructed of stone and furnished with pipes for gentle bottom heat. Mr. Taylor, of Bayside, L. I., has been credited with being the first to adopt this style of bed for roses, and they may have been described in these pages more than once, but after a more extended trial they have proved so very satisfactory that they deserve further notice. I have heard of several disappointments, however, where they have been tried, but there has generally been some fault in the construction, or the beds have been kept too warm, so I would urge any one contemplating trying the experiment to make certain that they have everything just right. To simply lay the pipes and cover with soil and plant, expecting to secure a uniform bottom heat is to tempt failure, and it is pretty certain to follow.

In the first place a wall is built around the entire bed, in other words along the two sides of the greenhouse far enough away from the walls to allow for the walks outside of all; this wall may be of brick, or of stone to within six inches of the top and finished off with two courses of brick, or of concrete as may suit the fancy, but should not be made of wood, a good solid bed should not have a particle of wood in it or near it. Next in order is to lay stone ducts or miniature culverts to receive the heating pipes, they should be deep and wide enough to allow a free passage of air round the pipe; if the house is narrow and has only two beds, the flow (2 inch) may run under the center path and the returns (1½ inches) may run down the center of each bed, if there are three beds the pipes may all be in the center of the beds, using 2 inch altogether. The pipes should be 21 to 24 inches below the top of the bed. For bottom heat water is the only thing to use, steam is too intense and cannot be checked off whereas water can be kept moving slowly all the time during the winter. I believe the secret of success depends largely upon maintaining a mild, uniform temperature in the bed; 75° was originally given as the right thing but I have found 62° to 65° very much better, in fact the higher temperature would not answer at all.

The culvert finished the pipes should be screwed together, laid on supports and tested to make sure they don't leak, after which the culvert can be covered with flat stones, the spaces between filled in with stones laid loosely and then the whole bed covered with smaller stone up to within 12 inches of the top of the wall. The walls along the sides of the center walks can now be bricked up and the beds covered with good tough sods turned the grass side up, which will prevent the drainage becoming clogged. If the paths are now nicely cemented we shall have a very nice clean house that cannot possibly be littered up, and which will, everything else being equal, grow as good or better roses than can be produced by any other system.

We have demonstrated that plants on these beds require just as much water in winter and probably more than do raised benches. Grated stock especially seems to revel in the conditions they furnish and I feel certain that carnations would do equally well with roses.

ROBT. SIMPSON.

Eel-Worms Again.

Replying to J. C. D., Minnesota, the roots received were all matted up with eel-worm; it could hardly be expected that a plant would live, much less thrive,

under such conditions. Suggestions have been given from time to time in the FLORIST, both as to their extermination and how to avoid them. Rather than repeat what has been said before more than once I would advise J. C. D. to look up the articles in question. It is too late to do anything for the old plants, but it may be kept out of the houses perhaps the next season if prompt and vigorous measures are adopted. Not a single plant should be set out in the benches that shows signs of it on the roots; it is a tedious job examining all the roots when planting, but not more so than digging up half the plants during the winter and burning them. Try to satisfy yourself as to the source of the eel-worms now affecting your plants; perhaps it came from stock purchased, perhaps from manure, or may be in the soil, and when a decision is arrived at fight the trouble in that quarter.

The sample sent by J. C. D. some months ago showing a white fungous growth were sent to a specialist for microscopic examination, but he has not reported on the matter as yet. Am afraid if the disease is at all malignant the plants will die before the doctor can diagnose the case. Would suggest a spraying weekly with the ammonia solution of carbonate of copper.

ROBT. SIMPSON.

Black Spot.

Some weeks ago a note appeared in the AMERICAN FLORIST regarding black spots found on rose leaves. These spots are found to occur most abundantly after the application of fertilizers, and their occurrence has frequently attracted attention. In several cases well known mycologists have gone so far as to describe new species of fungi on the basis of these structures; but the fact is that they are simply fruiting bodies coming from other fungi which grow on the fertilizer and have the power of projecting their spores at maturity. One of these is *Pilobolus crystallinus*, whose fruit consists of pellucid stalk about the size of an ordinary sewing needle, which is swollen at the top and surmounted by a small black-capped spore case. This fungus has been known to throw its spores accompanied by this black cap to a distance of many feet. There are various species that have similar characteristics. This matter is fully explained in an article by Prof. Farlow in the "Proceedings of the Society for the Promotion of Agricultural Science," 1886, pp. 24 and 25.

S. B. SEYMOUR.

Tea Roses for Bedding—Grape Vines.

Kindly advise me through the FLORIST the best twelve tea roses for summer bedding.

I have some 25 grapes that have been planted 8 years. They do not bear but grow nicely; they are pruned back to three buds each year and fertilized well. About 12 feet on north side is a row of very large spruce, hemlock and larch trees. Do you think they have anything to do with the trouble? O'H.

To ask which are the 12 best tea roses for bedding outdoors, is about as difficult to answer as would be the same question in regard to chrysanthemums; we do not all judge by the same standards, neither does any particular variety do equally well in all soils and climates. I will give you a list of 13 which I would feel safe in recommending to anyone, though it is possible that some of the readers of the

FLORIST may take exception to more than one-half the varieties here recommended. Kaiserin Augusta Victoria, Mme. Caroline Testout, Meteor, Papa Gontier, Marie Guillot, Marie Van Houtte, Bon Silene, Hermosa, Etoile de Lyon, Mme. Bravy, La France, Souv. de Wootton and Duchess de Brabant. Of course this list includes several hybrid Teas, but because of their free flowering robust constitution and perfect blooms I consider them far more desirable as bedders than most of the pure teas.

Think O'H. need not look further for the cause of the unproductiveness of his grape vines; a row of large evergreens growing 12 feet away from the vines would not only cause considerable shade, but also take all the moisture and fertility from the soil. There may be other reasons, but I think this would be sufficient to account for their failure to produce fruit.

ROBT. SIMPSON.



Carnation Notes.

I hear of several noted growers that will experiment this year with under glass culture all summer, to avoid the retarding transfer from field to house. I had occasion before to express my experience in this matter, and will not try it any more, but will nevertheless await the results of others with much interest. I have come to the conclusion that our summers are too hot for an entire culture under glass, and have given the reasons of my failure in former notes, but would recommend making experiments in parts of the country where summer temperature will not run over 85° to 90° in the shade. I acknowledge that if this mode of cultivation could be successfully carried out it would further carnation culture to a great extent.

In connection with the failure of an entire culture under glass, came the next thing, an early transfer from field to house, as has been recommended by many growers. The desire to have early flowers in October and November prompted my experiment with the entire culture under glass. The same is the motive for an early transfer, and I am happy to say I experienced better results. It depends much on what care, what precautions are used to bring the plants as quickly as possible over this interruption of their growing, and cause them to take a good hold of the new soil. It was a comparatively easy matter with us last fall, as the plants just coming through the summer's drouth were small and hard, not much in a condition to wilt easy. They took good hold in a short time, but I was somewhat disappointed as to their early free blooming. The plants were more bent on growing in size to finish their summer's growth, than some to a free blooming state; but this had quite a beneficial effect on varieties inclined to bloom in crops, as they became more constant and steady bloomers. Especially was this the case with Bridesmaid.

Quite different it is with strong plants and softer growth; they require more care, but in their vigorous condition respond quicker to careful treatment. The carnation of 60 years ago, the hardy or garden carnation of Europe, the



GROUP OF CARNATIONS IN POTS.



POTTED STRAWBERRIES WITH POTTED DIGITALIS IN BACKGROUND.



WINTER-BLOOMING STOCKS IN POTS

A ST PETERSBURG EXHIBITION.

parents of our present everblooming type, requires a whole season's growth, and the winter's rest, before they will bloom. Our present ever blooming varieties bloom much sooner, and if their blooming indicates maturity, will in reality mature in three or four months when grown from cuttings; and a good percentage of the seedlings will bloom in the same period from the time of sowing

the seed. This early maturity is the change to the everblooming, monthly or their blooming several times through the season at short intervals. This typical quality wrought by cultivation has become nature, without interfering with their perennial character, but this same quality that has proved in carnation culture the source of profit, is in their early stages of growth a hindrance in

growing to their full size through summer and fall, the same as the hardy garden or mother variety. Their early and constant blooming retards growth, exhausts their strength, hence we resort to pinching the plants back and not allowing them to bloom.

To refer again to the past year's experience, our early housed small plants coming through a severe drouth resumed growth and they bloomed as they would have done in the field under favorable circumstances if allowed to do so. The drouth made our plants six weeks late. The size they should have attained in December was not gained until February. The main crop we expect generally in January and February we had in April and May, and their lateness curtailed our returns considerably.

This, our experience of the past season, shows us again the importance of strong plants to house in the fall, strong plants that have made and matured fundamental growth, have accumulated the stores to begin work as soon as fully established in their new quarters. As regards the transfer from field to house, the quicker this interruption of their growth can be overcome the more favorable are our chances for an early supply of flowers. Now if strong plants are obtainable for an early transfer, we have all the advantages possible, and are far ahead of an entire culture under glass, as I have experienced it. Further my experience of the past season shows me, that even when plants are small, an early transfer is preferable, as my early housed smaller plants gave more satisfaction than the later larger ones, that had the benefit of rains.

There is one point claimed by some advocates of an entire indoor culture; they say they can be better guarded against rust, and are not so susceptible to rust, for it was said the plants grow hardier, not so soft. I doubt this assertion. If means are to be employed of the same nature that gave our field plants such a hardy texture last summer, they will surely stay small too, but I believe will guard against rust, for rust would not have grown on our plants last summer if the spores had been scattered over them by the handful. If a radical rust treatment is intended, if all known means for prevention are to be employed, I believe it can be done best under glass. But with all these preventive measures can they expect to grow as strong sturdy plants as by a fair field culture? If this can be done their point is gained, otherwise I would prefer the strong field grown plants and apply these measures against rust when housed. I say again I await the results of these intended experiments with much interest.

I received an inquiry coupled with a complaint about plants in the field being infested with bacteriosis, and making slow growth. As it was claimed some of the plants came from our place I requested the party to send a few plants for examination. On examination of these and further information I found they were early January struck plants, kept growing in flats, were to all appearance strong plants but hard, and I find my assertion that such plants are not as good as the later struck softer ones, again verified. These plants were breaking nicely but slow, and with the favorable humid warm atmosphere became infested with the bacteriosis, causing the young leaves to cramp and curl. I find the same state among a few batches of early struck plants in our field. Time will soon rectify this, but it tends to show that there is nothing gained in early plants unless

they get shifted to larger pots as they grow on, before planting out.

FRED DORNER.

Carnations on Long Island.

Nothing finer in the line of white carnations can be imagined than Lizzie McGowan as grown by Jerome Suydam at Flatbush. Soil, treatment or whatever it may be—this variety would scarcely be recognized even by its friends. Semstwo feet long and upwards, flowers regular in form and of enormous size, and best of all lots of them. The plants in the field are already nearly as large as those that some growers are glad to take in in fall. Carnation growers miss a treat if they do not go to see this show. Mr. Suydam says "If you want to grow carnations you must take care of them." Very true, but there must be something else besides to make McGowans so much at home. Portia, Mangold, and Daybreak are also fine, Scott is actually up against the glass and a bench of six hundred Bouton d'Or has given big returns.

John Reimels, at Woodhaven, is another most successful grower with Scott and McGowan. Mr. Reimels, like Mr. Suydam, is a recent addition to the flower growing ranks, but as is generally the case with florists who graduate from farming and market gardening he makes a success of it at once without half trying. One thing is certain, plants grown in such places lack nothing in the way of rich food, and possibly this is one of the keys. Portia stands there erect two and a-half to three feet in height. The grub has been giving Mr. Reimels no end of trouble this spring. He is about to erect another carnation house 25x165.

At Dailedouze Bros. everything is looking good, as usual. Eugene says that Helen Keller has brought the top price all through the winter, and has proved one of the most satisfactory carnations in every respect. Scott is great here also. There are some seedlings that promise well. Chrysanthemums will be grown here as extensively as ever, judging by the young stock, which looks unusually large for this date.

Alex Burns does not go in for extra fancy carnations, claiming that flowers of ordinary grade, McGowan especially, give better aggregate results. "They have done well all winter, and I calculate to get big money out of them yet," he says.

Fungus of the Cutting Bench.

My carnations rot off at the top of the ground. They were good healthy cuttings, and did well for several weeks after rooting, but all at once one after another tipped over, and I found them decayed at the top of the ground. I have lost more than 1000 this spring. They have been in a cool place and not watered more than usual. The McGowans seem to be the only kind affected. Night temperature 50° to 55°; they were put from the sand into flats of earth three inches deep.

A SUBSCRIBER.

This disease is undoubtedly a cutting bench fungus or stem rot. I find the sulphate of copper solution very effective for either of these diseases. Plants may be attacked with the cutting bench fungus as long as in the house, and especially if they are crowded together as they generally are in flats. Sometimes it follows the plants out into the field. It is sometimes very strange how fungoid diseases pick out certain varieties, and leave others in close proximity unharmed, while



DISPLAY OF FLORAL ARRANGEMENTS.

A ST PETERSBURG EXHIBITION.

at other times these may be attacked and spare the others. This undoubtedly indicates a weakness of the variety attacked, from some cause or other, but should be traced back to the plants the cuttings were taken from.

FRED DORNER.



Chrysanthemum Notes.

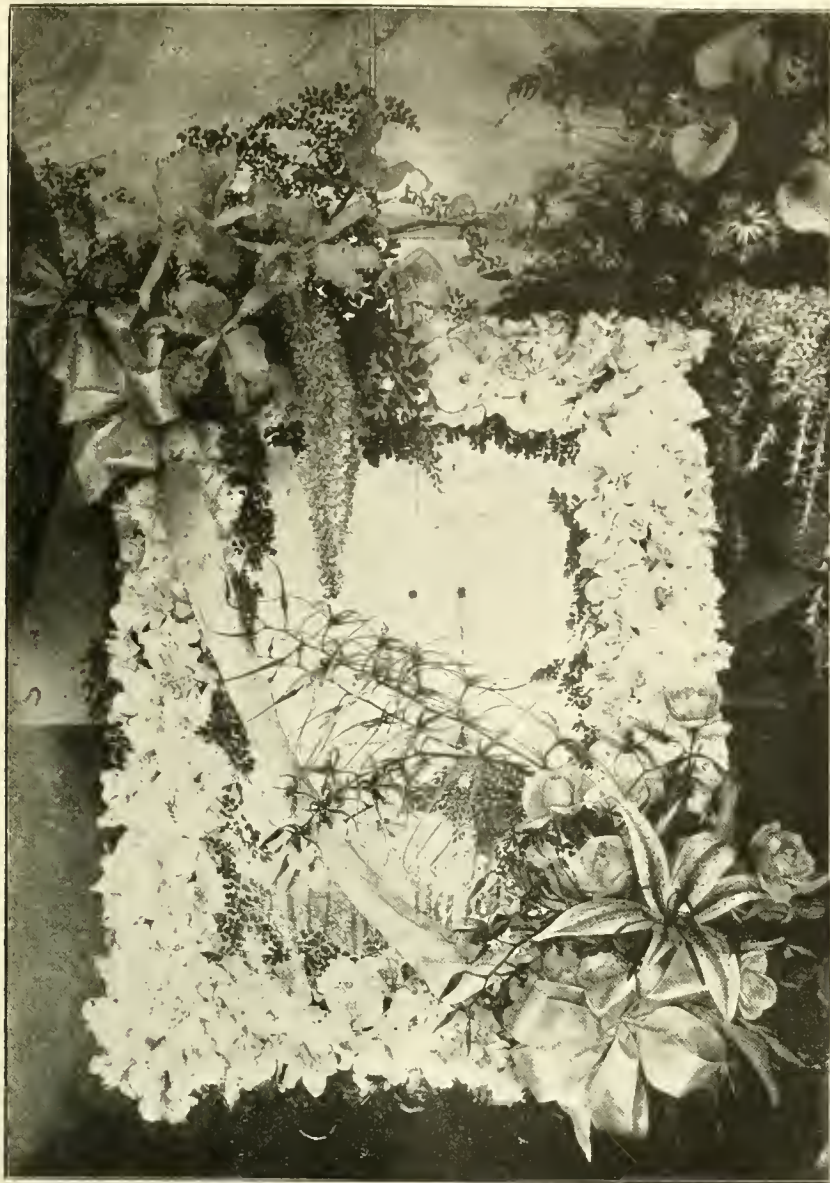
The plants intended for growing large blooms should be planted in the benches as soon as possible. We have always advocated strongly the making of a compost heap, and clearing out the benches and filling in with well prepared soil, but we often hear of growers, who grow good flowers upon soil used first for some other crop, (we however, have never yet seen any of these products). To those who grow upon old soil, we would advise their giving a good liberal sprinkling of bone dust, well shaken in, before planting. There are many florists who say that the use of bone is extravagance, that you cannot possibly get the good out of it in one year because it is so slow in decomposing. A few years ago we were unfortunate enough to meet one of this class, and listened to his arguments. We planted without any bone, but with a liberal supply of manure, and afterwards fed with liquid manure containing a large percentage of nitrogen. We had as beautiful bench of chrysanthemums as one would like to look upon during September. Stems nearly an inch through at the base, bearing large strong leaves of a beautiful glossy green. But when the buds began to grow, and the time came for them to swell, they remained small and when the flowers were fully open we were doomed to a great disappointment, for we hardly had a bloom in the house

fit for the exhibition table. A friend, well posted in agricultural chemistry, paying us a visit, was asked the reason, and upon hearing how we had proceeded in their culture immediately answered that the soil was deficient in phosphoric acid, and since that time we have never tried to economize on bone.

To those not having good means to distribute liquid manure throughout the summer, the better way to prepare the benches is to cover the bottom with an inch of half rotted cow manure, then placing on top about three inches of soil from the compost heap. We say to those not having the means to distribute liquid manure, because we are well aware that many of the more successful growers do not adopt this plan, but simply plant in the soil and begin watering with liquid manure as soon as the plants get well established, weak at first, and gradually increasing the strength throughout the summer until the blooms begin to set. This requires good judgment and an increased amount of labor.

We advised two years ago the packing of the soil as soon as the plants were set. We have done this and have found that sometimes the plants are considerably injured in so doing, the roots often being broken off or damaged so much that the plants have to start and make an entirely new root growth. But if you want to produce a bloom with the necessary depth, it is very important that the plant should be grown in a very firm soil, and we think that we have found a plan, whereby we can accomplish the object in view, and not do any injury. As soon as the soil is placed in the benches tramp it down hard and then set the plants with a trowel, being sure to pack the earth as firm as possible around it without injuring the plant.

The amount of space required by a plant is an oft mooted question among growers, some setting the plants a foot and others four inches apart each way. We set our plants in rows across the bed, the rows being nine inches apart and the plants five inches apart in the row. We have found that this will give us room enough to grow a high grade of flowers and the plants do not crowd. We regard



DECORATED MIRROR.

A ST. PETERSBURG EXHIBITION

this as better than setting the plants equally distant each way, for it enables us, the rows being so much wider, to reach well into the bed to keep the plants tied up without breaking them.

ELIJAH A. WOOD.

A St. Petersburg Exhibition.

We present herewith seven views from photographs taken by our St. Petersburg correspondent at the spring exhibition of the Imperial Russian Horticultural Society last April.

The group of remountant carnations, which was exhibited by K. P. Stinson, received the small gold medal, the second highest prize. The group of strawberries in pots, with potted digitalis in the background, were grown by P. P. Wargunin. The display of floral arrangements was by H. F. Eilers, the decorated mirror in the large picture being the central feature of the group. The group of remountant pot roses was shown by E. A. Beklemishev, and the display of garden tools by Groumeyer & Trautshold.

Herbaceous Plant Notes.

Pyrethrum roseum should be planted largely by every florist; aside from its usefulness in the border as an ornamental plant it is almost indispensable at this time of the year for cut flower purposes. It invariably comes in on Decoration Day when such flowers are rather scarce. The shape and general appearance of this pyrethrum resembles a fair sized and well formed aster; some of them are very double but the single forms are not less attractive and useful. In color they vary from pure white, blush or delicate rose to the deepest and brightest shades of vivid magenta. Many named varieties are offered in catalogues, still for the trade a few good varieties distinct in color and robust in growth will answer, a name is not necessary. Some of the oldest double kinds are still among the best, and have not been improved upon in the twenty-five years or more since their first appearance. They require a deep and rich soil to develop all their flowers to perfection, and should have all the sunlight possible, plants growing in shady positions will

show more or less weakness in the stem and the flowers will not show to full advantage if not in an erect position. All of them are very floriferous, producing good flowers from every growth, however small or weak it may push out early in the season. Their lasting quality can not be surpassed by any other flower, as it will be found perfectly fresh and salable a week after being cut if kept in an ordinary cool temperature. Few florists grow it to any extent, but whoever does finds it to be one of the most profitable crops on his place, requiring very little attention after once being planted. A forking or spading over between the plants in early spring and an occasional hoeing during the summer months is all they demand the first year, and after that a heavy mulching of decayed manure should be administered either in autumn or in early spring. They divide readily and any special variety may be increased rapidly by either division or by cuttings taken early in the season. If any beginner should start with cuttings or small plants and get but small returns the first year, he must not be discouraged thereby, for the following years will surely repay him for his apparent loss of time and labor at the outset. After the flowers are all cut, the remaining stems should be cut down to the ground, not only for the sake of cleanliness but also to induce the plants to form strong new crowns on the root stock. In unfavorable seasons and under good cultivation, a second growth will appear and perfect its flowers in September or October, but as far as my knowledge goes, this second flowering can not be relied upon to a certainty, some years we get a fairly good late crop and at other times without any apparent reason only a few scattered flowers over the patch will be produced.

Everybody admires the herbaceous borders at present, there being such a mass of bright and gay colored bloom all over them, producing the grandest effect and variations which can not possibly be produced by our ordinary so-called bedding plants. The large flowered poppies in orange, scarlet and crimson are remarkably free flowering subjects for the back of the borders, and show to greatest advantage at a distance. Large patches of the smaller flowering *P. audicaule* are elegant material for a more prominent place in front. Hybrid larkspurs, the anemuses and tall spiræas in the back ground are flowering freely. *Helenium Hoopesii* is a most magnificent free bloomer, its deep orange yellow flowers mixed with the blue polemonium forms one of the prominent features in the bed at present. This *helenium* is most desirable as a cut flower where a good deep yellow is wanted.

The columbines are all good yet in spite of the extremely dry weather we have experienced. *Campanula persicifolia*, white and blue, single and double, with their tall stout flower stems full of well shaped large open bells are really beautiful now, the tall *Lychnis chalcidonica* produces its large heads in great profusion, while *L. viscaria plena* is a compact mass of rosy magenta. The pyrethrums on their slender and tall stems are kept in constant motion by the slightest movement of the air, and are a grand sight wherever massed together. A patch of *Achillea aurea* is a sheet of gold with a few plants of the dark velvety blue *Campanula glomerata dahurica* dotted in between here and there. The digitalis in various colors are very attractive in the back of a wide border, and a bed of the dwarf pale blue *Aster alpinus* with clumps of *Hem-*

erocallis flava has been the admiration of every visitor, and is still in perfection. *Inula hirta*, with its bright golden yellow flowers, looks well under a few scattered plants of the pale purplish lilac *thalictrium*, both are in bloom for a long time.

The Chinese *pæonias* are a prominent feature now, the glittering silvery pinks and all the lighter tints are preferred by most visitors. The iris are holding their own yet, among them is *I. g. Victorine* of extra size with very deep shiny velvet purple falls and pure white standards, an exquisite variety, as also is the beautiful lace edged *Mme. Chereau*. *Pentstemon lævigatus* with its numerous delicate tinted pale blue campanulate flowers is out in full bloom, and a few plants of the beautiful large flowering *Inula glandulosa* on a ground work of the deep purple *phyteuma* are sure to be admired by all. *Coronilla varia*, *Centranthus ruber*, *valerianas*, *Saponaria ocymoides*, *Heuchera sanguinea*, the profusely flowering *Æthionema grandiflorum*, *Gillenia trifoliata* and a host of other bright colored flowers add to the gay, vivid coloring in the borders.

Among the pinks of extra free flowering habit we must mention the delicately perfumed *D. cæsius* and *D. arenarius*, both literally cover the ground with their pink and white flowers so beautifully laced and lacerated in the petals. I also should mention the hardy *Gladiolus communis* in red and white, which are exceedingly useful for cutting, and may remain in the ground year after year without replanting. The whites make a fine show when planted among the dwarf *saponaria*, *æthionema* or *phyteuma*, and *G. rubra* looks well above *Iberis coriariaefolia* or *Silene alpestris*, *S. saxifraga* or the lovely pink tinted *S. quadriculata*.

Rochester, N. Y.

J. B. KELLER.

Fern Notes.

NEPHROLEPIS.

This genus does not include a large number of distinct species, but all are useful. There are also a number of garden varieties, among which are some of our prettiest stove ferns. It is only within the last few years that the *nephrolepis* have been grown to any extent for market work, though they have always been recognized as invaluable for the rock-ferneries, also for hanging baskets. Few ferns are so readily propagated or find less trouble in their culture. All may be increased by divisions or from the young plants, which are produced on the long slender rhizomes (or stolons); some may also be raised from spores, but in most instances seedlings vary considerably in character, and often they are no improvement on the original forms; though some very interesting varieties have been added from seedlings. I may mention *N. Bausei*, as an instance; this was raised from *N. pluma*, a plant of which was found to have one frond with deeply lobed pinnae being the parent. Although there is no doubt as to its parentage I find that *Bausei* is not included with *pluma* in the "New List of Ferns."

In the culture of *nephrolepis* it is essential to give them sufficient pot room, and also to place them in such a position that those with the long pendulous fronds may have the best chance of full development; for those with very long fronds it is only when suspended, or placed in an elevated position, that their fronds can properly mature.

Like many other ferns the *nephrolepis* deteriorate with age; and most of them get too thick and bunched to be elegant. To increase the stock those with long rhizomes should be placed where they

will find some suitable material to root into, and young plants will soon begin to spring up. *N. Duffii* does not produce rhizomes, but a number of crowns are formed, and they may be readily divided.

A compost of good fibrous loam, leaf-mould, and sand added, and a little manure may also be used. The compost should be used in a rough state, the more porous and open the better. In growing on young stock they will be found to succeed best in a stove temperature with rather a moist atmosphere, but after they are well developed, they may be gradually hardened off, and will then do well in an ordinary conservatory, or some may be used for decorations in rooms. *N. exaltata* is the most useful for ordinary decorations; there are several different forms of this, but that with the long drooping fronds is the best. This also makes the finest basket fern, and it is this variety which is now extensively grown for that purpose.

N. tuberosa, of more erect habit, is better suited for some purposes. As a pot plant *N. cordata compacta* is one of the most useful, though the fronds are of too dark and somber a hue to become popular with the florists. *N. philippinensis* is another good variety for pots, as it grows freely and makes a compact plant; it also succeeds well in a cool greenhouse. *N. pectinata* is not so hardy, but it is one of the best of the slender growing sorts.

N. davallioides is a grand fern; where plenty of room can be given the fronds will attain to fully six feet long. This is sometimes confused with *N. ensifolia*; the latter has equally long fronds, but the pinnae are shorter and curl backwards. *N. acuta* is generally given as being synonymous with *ensifolia*, but the two as we have them are quite distinct, *acuta* having an almost black rachis and the surface of the fronds have a bluish metallic hue; it is also more erect in habit.

N. davallioides furcans: There are several varieties of this beautiful fern, but none are better than the original form as first sent out by Messrs. Veitch & Sons. To see this in its best character it must be grown on freely from a simple crown, and it is only in the stove that it will thrive well. *N. davallioides multiceps* is a seedling from the above. In this the pinnae are narrower, they are also more forked and most of the fronds terminate in a branching tuft of multifid growths. *N. plumosa* is another distinct variety of the same parentage, though I find it has been attached to *exaltata*. In this the side pinnae are short and narrow, they branch out and form several distinct frondlets, each of which is heavily crested, bearing the fronds down and completely covering the pots.

N. rufescens.—I believe this and *N. Zoltingeriana* are identical; it is more erect in habit than any referred to above. Fronds from 3 to 4 feet long stand nearly erect, it is very distinct in appearance but not so useful as many others. The variety *rufescens tripinnatifida* is a noble fern. Old plants of this rarely mature their fronds properly, but when grown freely from a single crown they will attain to fully 3 feet high. Single plants are very effective, but where a mass is required three or four may be put together.

N. pluma is a deciduous species, the long slender pale green fronds are very effective for summer use. The variety *Bausei* previously referred to has a beautiful feathery appearance. These usually die down early in the autumn. While dormant the soil should be kept sufficiently moist to prevent the underground rhizomes from shriveling.

N. recurvata is probably a garden hybrid, though not entirely deciduous it is inclined to lose its fronds in winter, thus showing some affinity to the above, though in general habit it is more after *philippinense*. *N. Duffii* will about complete the list as far as I am acquainted with them. This slender growing distinct form has never produced fertile fronds as far as I am aware. Though a very distinct fern it is of little use outside the stove, being very tender. It is, however, well worthy of a place in every collection.

A. H.

Boston.

Decoration Day in Boston was all that a florist could wish for. The rain which came a few days previous had given a refreshing touch to all outdoor verdure; the weather was in every way delightful and of the crowds that thronged the cemeteries the individual who did not carry plants or flowers in some shape was a rare exception. Lilacs, lily of the valley and other flowers that are as a rule available for florists' use at this date were all past, and *pæonies*, *deutzias* and *rhododendrons* just a little too late, so the demand was shifted on to the indoor product, and those who had *astilbe*, *stocks* and *lilies* got prices rivaling those realized at Easter.

It was evident early in the week that roses would be in short supply. However, the prevailing demand at Decoration Day having always been for the coarser and more showy flowers little concern was felt by the dealers over the scarcity of good roses, it being accepted that roses at market prices would be a risky investment. As it turned out many more roses and choice stock generally might have been sold. The disposition to make the occasion a universal memorial day was this year more pronounced than ever before, and while the original significance of the observance was not forgotten yet the decoration of the soldiers' graves called for but a fraction of the flowers and plants that were used up in the aggregate. The increased demand was especially noted by florists doing business in the more fashionable sections of the city, and now for the first time Decoration Day met them with a demand which taxed their resources to the utmost. That florists in the less aristocratic neighborhoods had all they could attend to goes without saying. In these localities the windows were heaped with artificial and dried flower designs, but it is a question whether these contrivances, most inappropriate for the spring time, found as extensive a sale as formerly.

On Thursday and Friday morning the cut flower market was thronged with the biggest crowd in its history and the adjoining street was almost impassable with flower wagons. The wholesalers also got their full share of the activity, and at the wind-up all were well cleaned out of stock. As usual there was proportionately more call for colored than for white carnations and roses and better prices were obtained on Thursday than on Friday. The receipts of carnations far exceeded expectations, and prices had to drop as soon as it became evident that there was to be no shortage. A very large proportion of the carnations received, probably thirty per cent. went fast asleep as soon as they got a breath of city air. Nobody could be found, however, who would acknowledge having done any storing. For good blooms the average price was about \$3 per hundred. *Astilbe* sold quickly at \$25 per thousand. *Longiflorum* lilies were scarce and sold for \$10



GROUP OF REMOUNT POT ROSES.

DISPLAY OF GARDEN TOOLS.
A ST. PETERSBURG EXHIBITION.

per hundred and candidums, of which there were a few, brought \$5.

The rhododendrons and azaleas are now in their glory at H. H. Hunnewell's. Mollis azaleas show the effects of the severe winter and many rhododendrons also bear blasted buds, but the Ghent azaleas are glorious beyond description. The conservatory is brilliant with a promiscuous display of choice orchids and flowering plants. Cattleyas, lœlias and gloxinias inside and banks of fuchsias, foxgloves, snapdragons, geraniums, calceolarias and flowering shrubs under the awning. Among the latter are a number of Crimson Rambler roses in bloom which Mr. Harris regards as a great acquisition for this purpose.

The business of W. A. Twombly has been organized into a corporation, W. A. Twombly president and Thos. S. Spurr, treasurer.

Alex Burns of New York has been visiting Boston and called on a number of the local growers.

New York.

The schedule is out for the exhibition to be given by the Florists' Club and Gardeners' Society on June 20, and can be procured (also entry blanks) from the Secretary, Jas. I. Donlan, 51 West Twenty-eighth street, New York City. There are twelve numbers in the nurserymen's and florists' section devoted to cut roses in several classes, herbaceous perennial flowers, flowers for bedding, sweet peas, iris and pœonies, and twelve similar classes are provided for amateurs and private gardeners. The first prize in each case is the club's silver medal and the second a certificate of merit. Mr. G. Amsinck offers a special silver cup for general collection of cut flowers exclusive of roses grown under glass, and Mr. C. Weidenfeld also offers a silver cup for display of roses all classes. *American Gardening* will present a year's subscription to the most unsuccessful amateur exhibitor.

Out of town orders received a slight

stimulus on account of Memorial Day, but in the city little extra work done, the street men showing the greatest activity. Supplies of roses are shortening up now, but carnations are coming in abundantly. There is an unusually large supply of carnations in market this season.

There is no prettier store in Greater New York than R. Jahn's store at 492 Nos rand avenue, Brooklyn. Just now the windows are beautifully dressed with rare plants, including cattleyas, oncidiums and Dendrobium thyrsiflorums in bloom. A fringe of incandescent lights on the sign outside is used with good effect in the evening.

An extra event at the regular meeting of the Flatbush Florists' Bowling Club on last Thursday evening was a snug little dinner party to say farewell and bid *bon voyage* to George Heitmuller, who has been foreman for Mrs. Meissner and is now going to Germany for a short visit. The club presented him with a loving cup. Papa Zeller presided and all had a royal good time.

The news comes from Bayside that Fred Storm is to be married on June 19. Rudolph Asmus is cutting the finest Meteor roses ever seen at this season.

Theo. Roehrs is another of the lucky ones who is booked for a trip to Europe.

Fleischman has got settled in his new store. It is a beauty.

On Decoration Day the employes of Hitchings & Co. played a game of baseball opposite their works at Jersey City. The New York machine shop nine were defeated by the foundry nine of the Jersey City Branch by score of nine to eight. The feature of the game was the excellent playing of Small of the New York team, and Nxon of the foundry team.

Pittsburg.

The growers of bedding stock are taking things much easier this week, for the grand rush culminated on Saturday morning, or rather Friday evening, it having become the custom here for the children of all the public schools to contribute plants on the day before Memorial Day for the decoration of the soldiers' graves in the many cemeteries and graveyards here by the Grand Army on that day. Naturally the owners in other parts of the grounds wish to have their lots looking properly attended to, as large crowds of visitors are in attendance to witness the ceremonies, forcing the bulk of the business to the last week of May. Plants were very plentiful, with the exception of geraniums, many of the growers being unable to supply the demand.

No improvement in the cut flower trade to report, but all are hopeful that this month, with the school commencements and the meeting here of the National Saengerfest, will bring about the much desired increase. The season here is fully three weeks advanced; outdoor stuff that usually blooms in June is almost done, roses especially so, and this will be quite a factor in assisting the cut flower branch.

The parks are beginning to show something of what they will look like later on, as in all of them all the available force is busily engaged in arranging and finishing planting of the flower beds. Mr. Falconer is very busy with the improvements in Schenley Park, road making and landscape work especially; everything is being done in the very best manner possible, as it is permanent improvements that are under way, and nothing but first-class

work is permitted. In the conservatories Mr. Joe Spring oversees that all is in proper shape. In the aquatic houses the various kinds of lilies are commencing to bloom; the *Victoria regia* (grown from seed) has leaves already over 5 feet in diameter and flower buds showing. In the other houses everything is looking well, especially the begonias; they are extremely fine. The manner in which they are grown this year shows what a grand class of plants they are and proves a revelation to most of the visitors. The calceolarias were very good, but are about done blooming. The gloxinias are in full glory and show some extra fine specimens, several of them with grand heads of bloom, with between 40 and 50 flowers open at one time. Lord & Burnham are hard at work at the addition to the Phipps Conservatories; the foundations are almost completed. They expect to have it wholly done in about two months.

The club is to hold a special meeting on Thursday, 4th inst., when it is expected that the matter of going to the convention of the S. A. F. at Cleveland will be considered. Several new names will also be proposed for membership.

The decoration put up by Mr. James Dell, mentioned last week, has by order of the fire marshal been taken down, with the exception of the laurel wreathing outlying the windows and projections, he considering the pine to be too inflammable a material to permit it to stay, covering the entire fronts as it did, and as he is supreme in his department, down it had to come. REGIA.

Philadelphia.

The first annual shad dinner and picnic of the Florists' Club was held at Wissinoming, on the banks of the Delaware, last Wednesday afternoon. We say annual, as owing to the success in every way of this occasion, there is no doubt as to its yearly recurrence hereafter. The attendance of the ladies had no doubt more to do with making the occasion so successful than anything else; nearly all the members brought their wives, and those of them who have not yet entered the blissful state had their sweethearts along. The ladies seemed to take as much interest in the shooting contest as the gunners themselves, and frequently applauded the good shots. W. K. Harris was able to be present, and while a bit shaky is much better, and was able to take his place with the gun. Anderson was in good form, and carried off the honors in the special shoot for the prize offered by the committee for that occasion.

After the shoot the party adjourned to the lawn in front of the club house, and engaged in a wheel barrow wheeling contest; each contestant was blindfolded, and tried to run the barrow to a tree some fifty yards away. It looked very easy, but proved a difficult thing to do. After many ludicrous attempts by various persons the honors were carried off by John Gardner, who made a bee line for the tree, and struck it fairly. The ladies then tried the same barrow on a shorter course, and proved they were able to walk much straighter than the men, as several hit the mark, and finally the prize was awarded to Mrs. Farenwald, who ran the wheel the nearest the center. The sack race was very amusing, and was finally won by George Clark from some fifteen contestants. The fifty yards' race was won by S. S. Pennock from some twenty competitors. The fat men's race was a source of considerable amusement. Messrs. Heacock and Butler ran a dead heat twice, and then on the

third trial Mr. Heacock won by six inches.

After the party had partaken of a very excellent shad dinner the presentation of prizes won was made by Robert Craig; he was in his usual happy vein and kept the party roaring at his apt remarks. Mr. Anderson got a pair of squabs for his good shooting. Mr. Gardner was rewarded for his able wheeling with a clay pipe, while Messrs. Pennock and Clark received two horns with which to shout their victories. Mr. Heacock was presented with a suspicious bottle, but on sampling it nothing stronger than cold tea was found. Mrs. Farenwald, although having no use for them, was obliged to accept a set of false teeth with a whistle attachment for her success with the barrow. After this interesting event the party took the train for home, all expressing themselves as having had a most pleasant afternoon.

We almost forgot to state that the prize for having disposed of the greatest amount of shad in the most graceful manner was awarded to Chairman John Westcott, who did this after he had seen to the comfort of all the others. K.

San Francisco.

Trade during the past week has improved somewhat. The supply is fully equal to the demand, with the exception of sweet peas during the fore part of the week, which were rather scarce, but the last few warm days have brought them into bloom very rapidly. They are bringing \$1.50 per dozen bunches for long stems and \$1.25 for short stemmed. The newer sorts of sweet peas are coming into great favor, particularly Lady Penzance, which is one of the grandest sweet peas in cultivation and is extremely popular in this market. The varieties which are in most demand are Blanche Ferry, Emily Henderson or Blanche Burpee, Firefly, Lady Penzance, Her Majesty and Blushing Beauty. Lilies are rather scarce now, and the demand, too, is small. Roses are generally of excellent quality, but they don't seem to bring very good returns. The outlook for Decoration Day is very encouraging and from present indications the results obtained by growers who have a good stock of sweet peas, carnations, etc., will be very satisfactory.

Some of the wholesale growers are beginning to plant out their chrysanthemums now. At M. Lynch's place work has begun with out door planting of mums. We notice several acres of Semple's asters also planted a few weeks ago, which are looking splendid.

The wholesale men report that not a great deal of flowers were shipped to adjacent cities this Decoration Day. Smilax was rather scarce for Decoration Day also, carnations are splendid in quality now, in fact as fine as ever come into this market. Daybreak, however, is scarce, also good McGowans.

Mr. Smike Parker, forman for Edw. Parsons at San Jose, was a visitor Sunday. Here reports business as encouraging for Decoration Day.

Mr. H. Goertz has established himself in the nursery business at the corner of 24th and Hampshire Sts., intending to make a specialty of floral designs. The firm name will be Golden West Nursery.

Steiger's Pottery, which was burned at San Jose some few years ago, and which since built a fine plant at Baden has gone into the hands of a receiver.

Mr. Curtis Tobey has entered the employ of E. J. Bowen, the seedsman on Sansome St., and has started for a tour

of the Southern States in the interests of the above named firm.

The committee in charge of the proposed fiesta in San Francisco held a meeting in Mills building this week. Mr. W. H. Mills moved that \$50,000 must be subscribed before anything could be done; he further argues that the co-operation of the ladies of this city be also secured, as their combined efforts would contribute largely to the success of the enterprise.

Mr. P. O'Hearn, formerly a carnation grower in San Mateo, has leased his greenhouses to his brother, John, and has accepted a position with D. O. Mills, Esq., at Millbrae.

Alameda is the last city to decide that they shall also have a flower carnival, and various committees have been appointed, and at present writing everything seems favorable to its success.

Mrs. Merriman, who has conducted the Hyperion Gardens at Mountain View for the past few years, has been attached by employes for wages. Mrs. Merriman hopes that this embarrassment will be only temporary, and that she will be able to make satisfactory settlement with all her creditors.

Mr. Jas. Dunham, who so atrociously murdered six persons in San Jose last week was formerly in the nursery business at Chico.

At the last meeting of the Los Gatos Floral Society the *Calochortus alba* was chosen as its floral emblem. The committee on the fall chrysanthemum show are hard at work and hope to make it as successful as former exhibitions.

The *California Garden* which made its debut lately as the only floral magazine published in the state is meeting with great success.

The new range of greenhouses of E. W. McLellan at Burlingame are rapidly assuming shape and soon will be planted.

The past warm days have brought out everything in the seed growing districts. It has rapidly brought the sweet pea into bloom and in a number of instances has burned the bloom also. It has helped everything wonderfully, and is bringing all crops into bloom. METEOR.

St. Louis.

Business is at a standstill in St. Louis at present, owing to recent storms, and to a cyclone which destroyed much property in and about our city. Most of our florists were fortunate enough in escaping the cyclone, as the storm was confined to the southern part of the city; the west end got very little. The following florists were damaged:

W. Schray, \$50; Frank Fillmore, \$20; C. Beyer, \$50; Andrew Meyer, \$200; Chas. Juengel, \$1,000; Max Herzog, \$1,200; Harry Rieman, \$50; Mrs. M. Eggling, \$800; Tom Carroll lost 1,000 feet of glass, and damage to other property will amount to \$400. Houseman Floral Co. lose about \$300.

The damage to Shaw's Garden and our other parks cannot be expressed in dollars and cents. James Gurney, the veteran superintendent of Tower Grove Park and head gardener of Shaw's Gardens is heart broken, and he has cause to be. Mr. Gurney, in speaking of the damage, said it can not be replaced, and the loss is incalculable. It will take three years to make the garden and Tower Grove look a little as they should, but the grand old trees will never hold their heads up again. The wreckage at the parks is enormous, few can realize the damage done to these pleasure resorts. Park Commissioner Ridgely said that it would be impossible for him to express in



LAFAYETTE PARK, ST. LOUIS. AFTER THE CYCLONE

dollars the damage done. In Benton Park 226 trees were leveled to the ground, all the shrubbery, plants and flowers destroyed and the lawns rooted up. The greatest damage in Forest Park was caused by the sudden rise in the River Des Peres. Lafayette Park, which is not under the jurisdiction of the city park commissioner, is a total wreck, and will take 15 years before it assumes its old appearance. In the last two storms the city has suffered losses to its parks aggregating \$6,000. The florists were all lucky in escaping with as little damage as they did.

Decoration Day trade was good for the shipping trade, but locally it did not amount to much. Prices went up a little and good stock is becoming scarce. Good roses bring from \$2 to \$4, carnations \$1 and \$2, white flowers will be in great demand this week owing to great number of funerals caused by the cyclone.

President Jordan of the Hail Association reports the loss by hail that will be paid to C. Young & Son's Co. will be the greatest ever paid by the Association, the amount being a little over \$3,000.

Visitors in town during the cyclone were Martin Reukauf, of Bayersdorfer & Co., Philadelphia, and J. E. Killen, with C. H. Joosten, New York.

Chas. G. Fleckenstein and Ed. Buechel were appointed by the Merchant's Exchange to solicit subscriptions from the florists for the cyclone sufferers.

The next regular meeting of the St. Louis Florists' Club will be held on Thursday, June 11, at 3 p. m. A large attendance is expected, as several essays will be read; this will be a sweet pea meeting and a large number of blooms will be on exhibition.

The spring plant trade has been a disappointment to most of the florists; they report that this has been a bad season for them. Trees and shrubs sold better and helped a great many of them out. Taken

all round the spring trade was about 25 per cent. less than last year.

The bowlers came to bowl Monday night, just as if nothing had happened, this being the last three games of the series. In the 12 games just ended Emil Schray rolled 2002 and wins the medal. Second was Fred Weber, with 1,981, and Kuehn was third, 1833. Frank Fillmore made the highest single score in the series, 245, D. Helwig, second, 239, and Emil Schray third, 214. Next Monday night a new series will begin. J. J. B.

Chicago.

The American Association of Nurserymen will hold its annual convention at the Sherman House next Wednesday and Thursday.

Mr. J. A. Budlong, the Bowmanville florist, started Monday on a bicycle trip to New York. Though quite an old gentleman he spends much of his time on the wheel, often taking such short trips as a run to Milwaukee, Cincinnati, St. Louis or Detroit. The present trip will be the longest he has ever undertaken, and we trust he will meet with no accidents on the way. His son Bert cares for the business during his frequent absences on wheeling trips.

As previously announced, the next meeting of the club will be devoted to hardy roses. There will be an exhibition in addition to essays and discussions. Among out of town visitors will be Mr. W. C. Barry of Rochester, N. Y., who will tell the members his experience with hardy roses at Rochester. As the nurserymen will be in the city attending their annual convention probably many will attend this rose meeting of the club, and certainly all of their number who are interested in the "Queen of flowers." Each member of the club is requested to bring anything of trade interest to the exhibition.

The rose garden on the Wooded Island is in fine bloom, most of the plants having come through the winter finely. It proves a great attraction to visitors. According to one of the daily papers the first rose to bloom was a beautiful "Jack Maynard," which appears a novelty to the horticultural public.

Decoration Day business was excellent all round, and trade has held up well since, this week being quite a busy one. Roses are much improved in quality, and are selling well. Both color and size is improved. Average stock brings \$3, selected \$4 and in some cases \$5. The demand for roses, which is noted all over the country, was hardly expected, yet there was really nothing else to be had. Carnations are not in such brisk demand as roses, but there is no glut; good stock sells for \$1, and fancies, such as Rose Queen and extra whites, for \$1.50.

At Decoration Day there was rather a decline in the price of valley, there being no demand for it, but since then the price has gone again stiffly to \$4, and the latter part of the week the supply was not equal to the demand. Harrison is not seen, but good longiflorum brings \$8. The first auratum made its appearance this week, being unusually early; it brings \$1.50 a dozen. Mr. Swenson of Elmhurst is again cutting that beautiful centauria Marguerite, which was received with such favor last year. It sells on sight at \$1 a hundred. Another thing, a novelty in this market, sent in by Mr. Swenson, is a daisy of unusual size; it is the type of the ordinary ox-eye daisy, but with a smaller center, the ray florets being much wider and longer than the type, slightly twisted, and pure white, devoid of the grayish cast often seen in the common daisy. It appears to be a very good thing and sells for double the price of the ordinary daisy. These, by the way, are now being secured in quantity for the school commencements. They vary greatly in quality, the

best being treated to some field cultivation, including the enclosing of matted rows in a boarding or canvas strip along either side, which results in greater length and straightness of stem, as well as better color. They now sell for 30 cents a hundred. Coreopsis are 40 cents a hundred, sweet peas 30 to 50 cents. Pond lilies from Indiana are sold for 25 cents a bunch.

H. Y. Windheim of the Nebraska Seed Co., Omaha, was in town this week.

St. Paul.

Decoration Day trade was fully up to the average, there being a good demand both for cut flowers and plants. Snowballs were all gone, and there was no outside stock to depend upon. Shipping trade was good. The decorations at the cemeteries, while not elaborate, were plentiful; plants and cut flowers were used in large quantities.

The annual commencements throughout the country towns occur this week and next, and the demand for roses, especially red, is greater than for some time past. There is a general scarcity of stock, and many orders go unfilled. Weddings are also quite numerous, and there is a larger demand for wedding flowers this week than ever before. The florists all have their hands full and more than they can attend to. At this season there is always a dearth of red roses, but our florists do not seem to realize that fact as they should. More red roses could be profitably grown in this vicinity for summer use.

In the plant line sales have been very satisfactory. While the transient trade in this line seems confined to the city market, yet there is a good demand for vases, boxes and beds throughout the city, and as each florist has his own customers cutting is not indulged in to any great extent. Pansies have been selling nearly all season at 25 cents per dozen. In Minneapolis they have been sold as low as 10 cents per dozen, but there the department stores are ruining every branch of the florists' business. May was remarkable for this latitude in that we had no frosts, and outdoor stock has remained untouched. While there has been a great deal of planting out done, much still remains to be done, and it will not all be completed before July.

At the city parks Supt. Nussbaumer has a large force at work, but will hardly complete his work before July 1. Some very artistic carpet bedding is promised in honor of the G. A. R. encampment.

FELIX.

Des Moines, Iowa.

Decoration Day has gone by, and the demand for cut bloom was 30% greater than any former year. The weather being fine a large portion of our people availed themselves of the holiday and attended the decoration. The plant trade was good for a week before, and on Friday all hands were kept busy getting out orders. Prices of cut flowers were not advanced except in some few places. Plants sold at a lower figure than ever before; good pansies sold at 25 cents per dozen and 4-inch geraniums at \$1.50 per dozen, 3-inch at \$1 per dozen. Other stock proportionately low.

At the last meeting of the club a reward of \$25 was offered for the arrest and conviction of any party found stealing or molesting plants in the city. There has been a deal of complaint from customers about the stealing of plants, hence the club took the matter in hand.

Charles McAniff, foreman for W. L. Morris, has resigned and has gone to Springfield, Ill., where he has taken a half interest in the greenhouses on Pasfield street of the South Side Floral Company, which will be devoted entirely to the growing of roses for the wholesale market. We are sorry to lose Mr. McAniff from our club but all rejoice that he has good prospects ahead.

J. T. D. F.

Utica, N. Y.

Decoration Day trade was very fair; the demand for plants was fully equal to former years. More than the usual number of designs were used. A great many of the plants used were furnished by the school children, as is the custom here.

Carnations are the best flowers we are getting now; they seem to stand the extremes of temperature better than any other inside stock. Of all sorts to be seen Wm. Scott is the best. The heavy rains of the past week somewhat retarded spring work in the line of vases, window boxes, etc. Several light frosts also helped to extend the season of planting, a great many orders being given to "Send when it is warm enough."

A plant which is very much in evidence here this spring for use on verandas, etc., is the nephrolepis. They are mostly seen in two sorts, exaltata and tuberosa. A great many people prefer these to rubbers or palms. They seem to thrive on little else but water.

Mr. H. Paddock of the Garden company, Camden, N. Y., was in town looking up stock, as was also J. H. Hay, Oneida, N. Y.

Mr. John Hughes, formerly with L. E. Marquisee, Syracuse, N. Y., but now in charge of the Overlook Greenhouses at Little Falls, reports a large trade; was in town trying to piece out some lines of stock.

F. J. B.

Worcester, Mass.

Our trade for Decoration Day was larger than ever before, and it took some tall hustling to get stuff out on time. About the usual thing, loose flowers, bouquets, baskets, mounds, etc., was about what the people wanted and hydrangeas and other flowering plants sold well.

The three or four cool days last week helped wonderfully in holding the flowers, and though we got no out-of-door stuff at all we handled more stuff than ever before and none of it went begging. Carnations sold for 50 to 75 cents, roses \$1 to \$3, longiflorum \$1, peas 35 cents, stocks 50 cents to \$1; or in other words at regular prices. Weather was fine and stuff was very scarce Saturday morning.

A. H. L.

Cincinnati.

Business this week has shown a decided increase, especially in cut flowers. Flowers of all kinds were scarce on Decoration Day, and therefore sold well, particularly roses. Spring trade is about over and was about the same as in former years; an increase in cannas could be noticed.

James B. Allan, foreman to H. L. Sunderbruch at Rosebank, has gone for a month's vacation to see his folks at Boston, whom he has not seen for 5 years.

Decoration Day trade about the same as last year. Large calls for roses especially. Perles from the south are coming in.

H. SCHWARZ.

ROCKFORD, ILL.—No damage was done to florists here by the recent storm.

Fern Notes.

In the following selection are included those most suitable for growing on as exhibition specimens, or for culture in the stove fernery; though some may also be included among those most useful for choice decorations. Many others may be equally beautiful, but I have made the selection with the idea of giving the greatest variety possible in a limited selection. In trade nurseries it may not be profitable to go in for a large stock of these choicer sorts, but a few well grown specimens will always command a good price, besides helping trade for the more ordinary sorts.

Adiantum Farleyense.—No exhibition group is complete without this lovely maidenhair. In growing on large specimens it is necessary to be very careful to use plenty of drainage, and a rough open compost. I find fibrous loam from which some of the finer soil has been sifted out, used in lumps, with some well rotted stable manure and a liberal supply of sand added is the best compost. When in a healthy state this fern takes a large quantity of water, and I believe failure not infrequently occurs through not attending to this. Though plenty of root room should be given, over-potting must be avoided.

Adiantum cardiophyllum is another which makes a fine specimen, and is an old favorite with exhibitors. It is of easy culture and soon makes a large plant. The pale soft green fronds give a nice contrast, the young fronds also have a very delicate tint. I did not intend to include more than two of a species in this selection, but I think *A. trapeziforme* is worthy of a place, the bold deep green fronds being very effective, and like the above it gives little trouble to the cultivator. Being of rapid growth they require potting on oftener than those of slower growth. Liberal treatment in the way of manure may be recommended.

Microlepia hirta cristata, though rather too tender to be of much service for ordinary decorations, is well worthy of a place in every collection, and it makes a grand specimen for exhibition, the large gracefully arching fronds are just sufficiently tasseled to add to its beauty. It requires stove treatment, and is of very rapid growth. It may be readily increased by divisions, and like most of those of tufted growth it is better when divided up small. When potted in a rich compost and grown under heavy shading it grows very vigorously, but if potted in loam and well exposed to the light the fronds will be of better substance and of a beautiful pale shade of green.

Nephrolepis davallioides furcans.—This makes a grand specimen for exhibition, and it is also one of the most serviceable of the choicer ferns for decorations. Although it requires to be treated as a stove fern, it will last well in a low temperature after the fronds are well matured. When raised from spores it will be found to vary considerably. I prefer to select a good form and propagate from the young plants which spring from the long slender stolons. A few plants placed where they can find suitable soil to root in will soon give a lot of stock. When grown on freely from single crowns they soon make fine plants, but with age they form a dense tuft of crowns, after which they do not make such fine fronds. The best position for growing on the plants is to suspend them from the roof; they will bear a considerable amount of exposure to the sun, but they like a moist atmosphere and a plentiful supply of water. They are also greatly benefited by the

liberal use of manure. The variety N. d. multiceps differs from the type in having narrower pinnæ and well developed fronds terminating in a branching crest of finely cut multifid growths.

Gymnogrammes: Of these the most elegant is *G. schizophylla gloriosa*. This must be grown in suspended baskets or pots to give the long drooping lace-like fronds room for their full development. It is a stove fern, and makes a most elegant specimen, but unfortunately it is very tender and quickly shrivels up if exposed. This is the only viviparous gymnogramme that I am acquainted with; each frond produces a young plant, towards the point, and sometimes they appear on the side pinnæ. The young plants are easily established and make prettier plants than seedlings, which grow more erect, and vary considerably. Of the golden varieties, *G. Lauchana* is the best for growing on as a large specimen, or *G. Alstoni* may be recommended; this has the triangular fronds heavily covered with bright golden farina as in *Lauchana*, and all the pinnules are curled inwards, showing off the golden under surface to advantage. The best silver form is *G. peruviana argyrophylla*. All the gymnogrammes do best when elevated, and the fronds should never be syringed, but they require careful attention to water at the root. A compost consisting largely of peat suits them best, and over-potting must be avoided.

Davallia Mooreana:—A few years ago large specimens of this fine fern might be seen at almost every flower show, but since large specimens have somewhat gone out of fashion it is not often seen. Although it makes such a fine specimen, it is equally serviceable in a small state, and is one of the best of the choicer ferns for decorations. It does not come freely from spores, but I have succeeded in raising some good batches. The spores must be taken just at the right time and sown as soon as they have been sufficiently ripened. In propagating from divisions it is better to frequently divide small plants than to break up large plants, especially where compact plants for 5-inch pots are required. In potting the rhizomes should be kept well above the rims of the pots. Large specimens succeed best in pans about half the depth of ordinary flower-pots; rough peat, fibrous loam, with which may be mixed some sphagnum moss, suits this fern well. I may here mention that there appears to be some properties in this fern which causes irritation to the skin. I have suffered from the effects after handling plants, especially round the eyes.

Davallia Fijiensis plumosa is another which makes a fine specimen. To make a good show plant quickly, several young plants may be used together, if these are arranged in a pan, placing them so that the rhizomes spread out equally, they have a more symmetrical appearance than can be generally obtained by growing on a single plant, except when seedlings are used. The same treatment as for *D. Mooreana* will suit this. In a previous note I referred to the variations of seedlings. It is therefore better to rely on divisions where the true variety is of importance.

Cibotium Schiedei:—This is a general favorite, but cannot be grown where space is limited, as it soon attains to a great size. It can only be propagated from spores, and it is rarely that a large stock is met with in this country. I find this succeeds best when grown in peat and loam in about equal parts, plenty of drainage, and at all times it requires care

in watering; too much moisture at the root being very damaging. Although usually known among the trade under the above name, the botanical authorities class it with *dicksonia*.

Gleichenias:—No collection is complete without this beautiful genus being represented. For growing on into specimens I should select *G. Mendelli*, *G. dlecarpa longipinnata*, or *G. rupestris glaucescens*, either of which make fine specimens. The first named is considered to hold first place, but the last named makes a good plant quickly, being of free growth. Few ferns give more trouble to the cultivator than the *gleichenias*, though when they once find congenial quarters they give little trouble. A cool house or pit with a northern aspect is best. While they will not stand being exposed to the sun, they like plenty of daylight. They may have a little warmth in spring, while they are growing freely, but towards the autumn and during the winter the cooler they can be kept the better. I believe they will stand a few degrees of frost, but I do not think it advisable to let the temperature fall quite to freezing point. The stock may be increased by divisions, young plants divided into say two to four, are better than dividing up old specimens. Rough peaty compost should be used and plenty of drainage given. A dry atmosphere must be avoided, as this will be sure to result in thrips being troublesome.

Platyceriums:—Of these I hardly know which to give the preference to, *grande* or *Stemmaria*; both are grand ferns, the latter has the advantage of being readily increased from root-buds. When grown on a block of peat young plants soon appear, and these start away freely when taken off. *P. grande* can only be propagated from spores, and it is one of the most uncertain of all ferns. I have raised seedlings but have also experienced many failures when I thought I had really good spores. The spores should be sown on broken pots and sphagnum moss chopped up small. The *platyceriums* may be grown on the surface of pots, a stump of wood fixed in the center to stand up about 6 inches, some peat pressed round the wood and the plant fixed with wire to keep it in position until established. Both of the varieties referred to above succeed best in a stove temperature and like a shady position during the summer, but in winter should have all the daylight possible. The *platyceriums* are also very serviceable when grown in pockets formed of virgin cork. For hanging against walls or for suspending on pedestals in groups they are most effective. A. H.

American Association of Nursery Men.

The 21st annual convention of the American Association of Nurserymen will be held at the Sherman House, Chicago, June 10 and 11. A good program is promised and reduced rates have been secured from the railroads.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

SITUATION WANTED:—By good all around man; single. Address W. K. 56 West Randolph St., Chicago.

SITUATION WANTED:—By experienced gardener and florist; English. Thoroughly competent in all branches of greenhouse and outdoor work. Address GARDENER, care American Florist.

SITUATION WANTED:—By florist and gardener; single man, 6 years' experience; first-class references. JOHN EMERSON, care Mr. Scott, Keap Street Greenhouses, Brooklyn, N. Y.

SITUATION WANTED:—By first-class rose, carnation and mum grower and propagator; fully capable of taking entire charge. Don't reply unless you need a hustler. HUSTLER, care Am. Florist.

SITUATION WANTED:—As foreman or manager, by a successful rose grower and general plantman; 12 years' experience; age 36; married; sober and reliable. Address CULIVATOR, care American Florist, Chicago.

SITUATION WANTED:—By florist and gardener, 12 years' experience, 1 year in the country; German, single; private place preferred; would like a steady one. MAX GROEZINGER, 212 Hunter St., Rochester, Minn.

SITUATION WANTED:—By practical all round florist and gardener in the propagating and growing of roses, carnations, violets, mums and general plants; 10 years' experience in England and Germany; age 28, single. Disengaged June 15. Good references. CARL SCHULTZ, 34 Turner St., Grand Rapids, Mich.

SITUATION WANTED:—As foreman; successful in growing roses, mums, carnations, bulbs and general stock; competent to take charge of a large commercial place; 21 years' experience; age 35, married; best of references. Address FRANK BEY, Foreman La Roche & Stahl's, Collingdale, Del. Co., Pa.

WANTED:—Good rose grower. Address at once REINBERG BROS., 51 Wabash Ave., Chicago.

WANTED:—1400 feet good second hand 4-inch cast pipe and fittings; give price. S. WILSON & SONS, Marion, Ohio.

WANTED:—The address or whereabouts of Mr. Carl Skjoldager of Chicago, by JULIUS SCHARFENBERG, Box 97, Highland Park, Ill.

WANTED:—Single man with good experience in growing roses and carnations AT ONCE; good home for the right man. THEO. KLOCKENBERGER, 8341 Mead Ave., St. Louis, Mo.

WANTED:—An Al florist as foreman for a place of 75,000 feet of glass where first-class cut flowers are grown. References required. State wages ROSES, care American Florist.

WANTED:—Immediately, an experienced florist to take charge of a private place; married man preferred; best of references required. Address J. M. STUDEBAKER, South Bend Ind.

FOR SALE:—At half price three greenhouses, stock, boiler, pipes and everything belonging to it, if applied for soon. W. S. P., care American Florist.

FOR SALE:—Very cheap, a lot of extra good second-hand 4-inch boiler tubes, with solder all ready for packing; tubes about twelve feet long. W. H. SALTER, Rochester, N. Y.

FOR SALE:—A bargain; two greenhouses 100 ft. l. ng. in Macomb, Ill., heated with hot water; hotbed sash, tools, wagons, two boxes, a large stock of plants, a good established trade, in a good city; 3 years' lease on the ground free. All for \$1,500. Address J. L. PILLSBURY, Galesburg, Ill.

FOR SALE CHEAP:—Florist business; 5 hon ea. 5000 square feet of glass, the stock ready for spring trade; hot water heating, 2 sheds, dwelling, etc. All in good condition. Rare chance for the right man. To be sold on account of ill health. For particulars address E. TIEDEMANN, O'Fallon, Ill.

FOR SALE:—On easy terms, greenhouse establishment consisting of 6 houses, all stocked and in good order; 12 miles from New York; heated by Wethered hot water system; sizes of houses, one 36x100 three 12x100, one 20x80, one 25x50; 3 acres of land, large dwelling house, large barn, iron windmill and tower, supplying water to dwelling, greenhouses and barn; capacity of tank 300 gallons. Over 10,000 carnations planted in the field. For further particulars, apply to HENRY KRITTBOSCH, Lodi, Berken Co., N. J.

FOR RENT:—For a term of years, my greenhouse plant, containing about 800 feet of glass, steam heated, in a good location in the outskirts of the city, with an established cut flower trade. Some of the houses are planted to roses and cut flowers now, good for another season, and plenty of young plants of the best varieties of roses and other plants to replant. Possession given at once. A good grower with a few hundred dollars can buy into a good business. Address J. D. SEIZER, Cashier Internal Revenue Office, Cleveland, O.

FOR SALE:—5,000 feet glass, 3 houses 81 feet long each, boiler house 45 glass 16x20 boiler for steam, about acre land; carnations in field, one house filled with roses, 60 Sago palms; have other varieties, several hundred mums, and many other flowers, best varieties; houses well built, new. Land, houses and all the stock, everything all completed, pipe in, for \$1,700—\$300 cash, \$100 in flowers, 5 years' time on balance, with a warranted deed, a good title. City 5,000, another town 2½ miles away with over 3,000; a good flower town here; several large factories here. For full list of stock address—mean business L. Box 561, Dunkirk, Ind.

FOR RENT.

Eleven greenhouses; it is also a good chance for a man who has a small capital; there is a great deal of stock on hand. Write for information. It is also a good shipping trade. Apply

HENRY MOORE, McLeMORE Ave., Memphis, Tenn.

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J., care H. F. MICHELL, 1018 Market St., Phila

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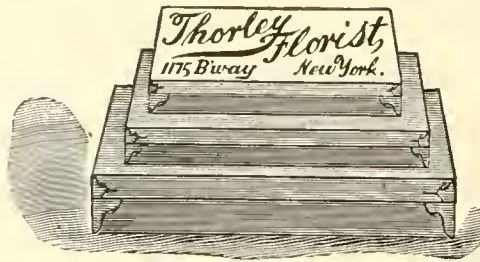
Advertisements must reach us by Wednesday to secure
insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

Society of American Florists.**RULES RELATING TO THE MANAGEMENT OF THE
ANNUAL TRADE EXHIBITION.**

1. The Society of American Florists shall, through the Executive Committee, control all features of the trade exhibition.
2. There shall be appointed annually at the winter meeting of the Executive Committee a superintendent of exhibits. The vice-president of the S. A. F. or the local organization in the place where the convention of the current year is to be held shall be invited to recommend such superintendent for election by the Executive Committee, as aforesaid.
3. Said superintendent shall have general charge of all details of the annual exhibition, and shall be under seven days' full service and pay at and during the convention.
4. He shall receive all applications for space and assign the same in the order in which they are received by him. He shall provide and arrange all necessary tables and staging.
5. Judges shall be appointed by the president and secretary at least one month before the exhibition. The president and secretary may appoint substitutes in place of judges who may be absent.
6. The exhibition shall be closed between the hours of 2 and 4 p. m. on the first day of the convention, during which time the judges shall pass on the exhibits, and they shall report promptly to the secretary on the same day. Exhibitors shall be excluded from the hall while the judges are at work.
7. Awards shall be given as follows: Highest, Certificate of Merit; second, Honorable Mention; third, Highly Commended.
8. The judges shall withhold awards on unworthy exhibits.
9. Judges shall be governed by the merits of the article as exhibited and shall state in their report on what special points of excellence awards are based.
10. In case any article or device has received an award at a previous S. A. F. exhibition awards shall cover subsequent improvements only.
11. No award shall be made covering the quality of seeds, fertilizers, paints and other articles of such nature that an intelligent opinion cannot be had without a practical test, but awards for creditable display may be given.
12. Doors of exhibition shall be closed five minutes before the opening hour of each session of the Society, and remain closed during the session.
13. Exhibition to be open not less than two hours before the opening of the morning sessions, to remain open during the day, except during the session hours, and as provided in Sec. 6, and to remain open one hour after the closing of the evening session.
14. Wall space shall be measured four feet in height, and when practicable a table not less than one foot wide shall be added gratis, if desired and applied for with entry.
15. Space desired shall be designated in square feet. A uniform charge of 25 cents per square foot for all space will be made, excepting that all plants and flowers contributed for exhibition purposes only shall be admitted free.
16. Exhibits not in position before 1 p. m. on the first day of the convention may be excluded from the report of awards.
17. No articles exhibited shall be removed until after the close of the last day's session, except by permission of the superintendent of exhibition.
18. Exhibition classes to be arranged as follows: A—Plants; B—Cut Blooms; C—Boilers and Heating Apparatus; D—Greenhouse Appliances, including flower pots; E—Florists' Supplies, including Fancy Earthenware; F—Bulbs and Seeds; G—Miscellaneous.
19. Exhibitors may group their goods together, excepting in the case of living plants and cut flowers. These shall be shown in a separate department from the other classes.
20. All adjustments not covered by rules or published action of the Executive committee shall be referred to that committee.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.



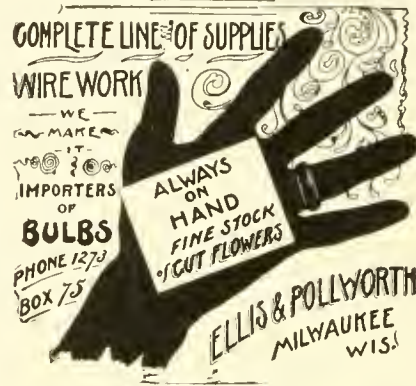
The boxes as they appear when set up for use.

We make them in a sufficient number of sizes, including for violets, to meet all necessary requirements.

THE NATIONAL FOLDING BOX & PAPER CO.,

NEW YORK SALESROOM:
132 & 134 Franklin Street.

315--325 Congress Ave., NEW HAVEN, CONN.



WISCONSIN FLOWER EXCHANGE,
CUT FLOWERS,
Palms, Ferns and Growers' Stock.

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Box 87. MILWAUKEE, WIS.

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Wholesale Florist,
1122 PINE STREET,
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A complete line of Wire Designs.

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4TH AND WALNUT STREETS,
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The Boston Flower Market

is prepared to purchase, on order, and
ship Trade orders for Cut Flowers at
prices ruling in the market on day of
sale. TERMS STRICTLY CASH.

Address WM. J. KENNEDY, Mgr.,
Flower Market, Park St., BOSTON, MASS.
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DAN'L B. LONG,
FLOWERS AT WHOLESALE.
Strictly Commission Business.
SUPPLIES, ETC.
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A. & F. RÖLKER,
Down-town Wholesale Florists,
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"The National"

Folding Flower Boxes are the best
and most convenient ever put upon
the market. They are made from
board, manufactured especially for
these goods, and made so as to resist
moisture, thereby keeping the flow-
ers fresh, and the box holding its
shape.

**THE NEW YORK
CUT FLOWER CO.,**
119 and 121 W. 23rd St., and
112 and 114 W. 24th Street,
**IS NOW
OPEN FOR BUSINESS.**
The Largest Dealers in
CUT FLOWERS
IN THE WORLD.

Handling flowers of all kinds in quantity
we are in a position to fill shipping orders
promptly. We shall give careful attention
to this branch of the business, and solicit
your patronage.

**WHOLESALE
FLORISTS**
JOEBERS IN
FLORISTS'
SUPPLIES,
FLORISTS'
VASES.

METS,
BRIDES,
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.

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WELCH BROS.,
Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., BOSTON, MASS.

Asparagus Plumosus Nanus.
Cut Strings, 8 to 10 feet long,
50 CENTS.
W. H. ELLIOTT, Brighton, Mass.
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SEEDS, BULBS AND ALL
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and FLORISTS' SUPPLIES,
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Winter & Glover,
Successors to T. J. CORBREY & CO.
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59 Wabash Ave., CHICAGO.

If you want First-Class Flowers, properly packed and delivered on time, send us your orders and you will get what you want.

We are now prepared to furnish Florists' Wire Designs and a full line of Florists' Supplies.
WRITE US FOR OUR ILLUSTRATED CATALOGUE.

Bassett & Washburn,
Successors to J. B. DEAMUD & CO.,
CROWERS and
WHOLESALE
DEALERS in
CUT FLOWERS,
88 Wabash Avenue,
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HEADQUARTERS FOR AMERICAN BEAUTIES.

Reinberg Bros.
WHOLESALE CUT FLOWERS,
61 WABASH AVENUE,
Telephone Main 4937, CHICAGO.
Our Roses best them all, in quality.
Headquarters for fine American Beauties.

W. E. LYNCH,
WHOLESALE CUT FLOWERS,
Wire Designs a Specialty.
59 WABASH AVENUE,
CHICAGO.

ROGERS PARK FLORAL CO.,
Wholesale Growers of
CUT FLOWERS,
41 WABASH AVENUE,
CHICAGO.

We are prepared to fill your orders with first-class flowers. Give us a trial order.

A. G. Prince & Co.
WHOLESALE
COMMISSION FLORISTS,
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Telephone Main 3208, CHICAGO.
Consignments collected. Prompt attention to all orders.

FLOWERS at RETAIL.
We are prepared to fill orders—received by mail or telegram—for Cut Flowers, etc., to be delivered in Cincinnati and suburbs or nearby towns.

* Customary discount to the trade.
HUNTSMAN & CO.,
615 Race Street, CINCINNATI, O.

Wholesale Markets.

Cut Flowers.

NEW YORK, June 2.	
Roses, Beauty.....	1.00@15.00
" all other varieties.....	.50@ 4.00
Carnations, ordinary.....	.25@ .50
" fancy.....	.50@ 1.00
Sweet peas per 100 bunches.....	1.50@ 3.00
Valley.....	4.00@ 3.00
Harrisell.....	2.00@ 4.00
Mignonette.....	.50@ 2.00
Adiantum.....	.75 @ 1.00
Asparagus.....	.50.00
Smilax.....	12.00@15.00

BOSTON, June 2.	
Roses, Gontier, Niphetos.....	1.00@ 2.00
" Perle, Mermel.....	2.00@ 3.00
" Bride, Bridesmaid, Meteor.....	2.00@ 4.00
" Beauty.....	5.00@ 30.00
Carnations.....	.50@ .75
" fancy.....	.75@ 1.50
Valley.....	2.00@ 3.00
Longiflorum.....	6.00@10.00
Mignonette.....	2.00@ 3.00
Sweet peas.....	.25@ 1.00
Adiantum.....	15.00@20.00
Smilax.....	50.00
Asparagus.....	50.00

PHILADELPHIA, June 2.	
Roses, Beauties long.....	10.00@16.00
" medium.....	8.00@15.00
" short.....	8.00@ 5.00
" Brunners.....	8.00@16.00
" Irises, Bridesmaid, La France etc.....	2.00@ 4.00
" Kaiserin.....	3.00@ 4.00
" small teas.....	1.00@ 2.00
Carnations, fancy.....	1.50
" first quality.....	.50@ .75
Sweet peas.....	.50
Peonies.....	2.00@ 4.00
Smilax.....	15.00@20.00
Asparagus.....	55.00@50.00
Adiantum.....	1.00

CHICAGO, June 5.	
Roses, Beauties.....	4.00@20.00
" seconds.....	4.00@ 6.00
" Brides, Bridesmaid.....	3.00@ 5.00
" Meteors.....	3.00@ 5.00
" Perle, Wootton.....	2.00@ 4.00
" Testout.....	4.00@ 6.00
" Kaiserin.....	4.00@ 6.00
Carnations.....	1.00
" fancy.....	1.50
Longiflorum.....	8.00
Auratum.....	15.00
Valley, cold storage.....	4.00
Mignonette.....	1.00@ 2.00
Sweet peas.....	.30@ .40
Irises.....	2.00@ 3.00
Peonies.....	3.00@ 5.00
Daisies.....	.40
Coreopsis.....	.40
Centaurea Marguerite.....	1.00
Cornflowers.....	.40
Smilax.....	15.00@18.00
Adiantum.....	1.00

ST. LOUIS, June 3.	
Roses, Beauties, long.....	7.00@15.00
" short.....	3.00@ 6.00
" select stock.....	2.00@ 5.00
" general stock.....	1.50
Carnations, fancy.....	1.50@ 2.00
" ordinary.....	.50
Valley.....	2.00
Harrisell.....	8.00@10.00
Callia.....	5.00@ 8.00
Sweet peas.....	.25@ .35
Cape jasmines.....	1.00@ 1.50
Smilax.....	12.00@15.00
Ferns, fancy.....	1.50
Ferns, dagger.....	1.00

BUFFALO, Jun 4.	
Roses, Beauties.....	15.00@25.00
" Meteors.....	4.00@ 6.00
" Mermets, Bride.....	4.00@ 5.00
" Perle.....	4.00@ 5.00
Carnations, common, long.....	1.25@ 1.50
" short.....	.75@ 1.00
Sweet peas.....	.50
Valley.....	4.00
Smilax.....	15.00@20.00
Adiantum.....	1.25
Asparagus.....	50.00

GEORGE A. SUTHERLAND,
Successor to PECK & SUTHERLAND,
Successors to WM. J. STEWART.
Cut Flowers and Florists' Supplies
WHOLESALE.
67 Bromfield St., BOSTON, MASS.
New England Agent for the GREAT ANTIPEST.

THE DIRECTORY

For 1896

✱ Is Now Ready.

Price \$2.00.

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John I. Raynor,
49 WEST 28th STREET,
NEW YORK.

SPECIAL EXTRA STOCK OF
AM. BEAUTY, METEOR,
BRIDESMAID, BRIDE.

DISBUDDED CARNATIONS.
FANCY GRADE.

Extra Fine SWEET PEAS.

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Cut Flowers,
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FLORIST,
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Roses shipped to all points. Price list on application.

Edward C. Horan,
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WHOLESALE • FLORIST.

Careful Shipping to all parts of the country.
Price list on application.

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CUT FLOWERS,
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JOHN YOUNG,
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WHOLESALE, COMMISSION,
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Commission Dealer in Cut Flowers,
WHOLESALE,
53 West 30th St., NEW YORK CITY.

MILLANG & CO.,
WHOLESALE FLORISTS,
501 Sixth Avenue,
CORNER 30TH ST., NEW YORK.
Consignments Solicited.

The Seed Trade.

AMERICAN SEED TRADE ASSOCIATION.

S. E. BRIGGS, Pres.; T. W. WOOD, 1st Vice-Pres.; ALEX. RODGERS, 2nd Vice-Pres.; A. L. DON, 114 Chambers St., New York, Sec'y and Treas. The fourteenth annual meeting will be held at Niagara Falls, N. Y., June 9 to 11, 1896.

The N. B. G. Co Failure.

Firms and banks interested in the Northrup, Braslan, Goodwin Co. failure exceeding \$500 in amount are in part approximately as follows:

Howcroft & Watkins.....	\$ 8,000
Cooper, Taber & Co.....	8,700
Vilmorin, Andrieux & Co.....	12,700
Jas. Carter, D. & B.....	500
Blaine Fils Aine.....	1,600
C. L. Peterson.....	600
C. S. Clark.....	1,200
First National Bank, Chicago....	40,000
International Trust Co.....	25,000
National Bank, Manitowoc.....	5,000
J. M. Kimberlin & Co.....	4,300
H. C. Agnew.....	1,200
J. H. Allan Co.....	1,200
J. B. Rice & Co.....	1,300
J. K. Amsbr.....	2 200
A. J. Brown Co.....	800
Nebraska Seed Co.....	1,000
Lake Manawa Land Co.....	800
S. W. Goodwin.....	7,600
National Bank, Waterville, N. Y.	13 200
Madson Seed Co.....	5,600

The total liabilities will probably amount to between \$200,000 and 220-000.

BOSTON.—There has been some little complaint of seeds not germinating owing to the very dry weather of the past month, but we have had some good showers this week and hope the drouth is broken; it has been so very dry in this vicinity that our market supply has been affected. Grass seeds especially have been very backward in starting and a large area on Boston common that was recently sown down will require replanting.

NEW YORK.—The season is not quite over and sales for May are holding out extremely well, yet it is sufficiently close to the end to sum up in a general way the record of the spring business. To start with, nothing was in short supply. Vegetable seeds were in some varieties overstocked, this being especially true of beans. Beans sold low last fall and many farmers saved over their own seed, the result being that neither wholesale trade nor market men have bought as in former seasons and a big surplus is left over. It was expected that peas might run short, but the reverse was what happened. A good many farmers who have done considerable vegetable raising in the past have turned their attention to hay this year and grass seeds have been selling well. High rents in the vicinity of the large cities are driving a good many of the local vegetable growers and truckers out of the business, and many changes in conditions seem to be in progress. Musk melon and cucumber seed for southern trade has been in big demand. Lots of late corn is still left.

The dry season has interfered greatly with the retail trade. From truckers and farmers numerous complaints are heard of seeds failing to come up. The business started out in a rather peculiar manner. Through March little was done. About April 1st it started in with a rush and continued until about April 15th or 20th, when it stopped short on account of the dry weather. Under ordinary conditions it should have continued for two weeks

Roman Hyacinths.

Our cable advices say, and we say, this is the time to buy. We can save you money if you will send us your order **at once.**

VAUGHAN'S SEED STORE,

CHICAGO: P. O. Box 688.

New York: 14 Barclay Street.

JOBBER OF FLORISTS' BULBS FOR 20 YEARS.

longer. The flower seed trade has suffered least, and this department is reported by all retail seedsmen as away ahead of last year. Between April 1st and 15th it was the best ever experienced. This applies more strictly to counter trade. As to mail trade the less said the better. Mail orders are now 25 cent orders where formerly they were \$1.00 orders. In specialties sweet peas have more than held their own and there is no sign of waning popularity in this favorite flower.

The spring bulb trade, while never heavy in volume, has been satisfactory all round and stock generally cleaned out. This is particularly true of dahlias, of which there were not enough in market to fill orders, and tuberose, of which there was a scarcity of large sizes. The sundries trade has also been good, with the exception of tobacco dust and tobacco stems, which most seedsmen have been obliged to stop handling on account of the stringent laws which require that a record shall be kept of all sales, monthly and yearly reports made and books be open for inspection at all times; too much trouble for the extent of this line.

Orchid Collecting on the Magdalene River.

Mr. J. H. Troy has received an interesting letter from Mr. John E. Lager dated "In Camp, Banks of the Magdalene River, April 27th," from which we select a few extracts as being interesting to our readers, and giving some idea of the boldness with which American collectors are going into this arduous work which until quite recently was promoted only by foreign enterprise.

After stating that he had just finished the collecting and packing of Cattleya Trianae, of which he had already shipped sixty-one large cases to the coast, with nearly one hundred more to follow, a trip which requires three days on mule-back to the river, and then a long trip by raft, Mr. Lager says:

"The varieties have not been picked out, as they are not in flower yet, but not having but one year to dispose of I could not very well lay idle and wait until the latter part of May, when the flowering season commences, then I had another reason, rumors of revolution circulating here on account of some elections which are going on today, and it is said if trouble results it will probably show in May sometime. I hope, however, that I'll be able to get my plants down to the

BULBS

For Fall Delivery.

Give us your wants, and will quote you price that will give you a living profit.

WM. ELLIOTT & SONS,
NEW YORK.

coast before, as the first thing done generally, is to lay hold of all kinds of embarkations on the river, and thus stop all communications. I hope to be able to leave here about the 10th or 12th of May, when I go for C. gigas, and thence for C. chocoensis, for which I'll have to traverse almost the entire continent.

"A favor I beg of you is to send me a paper now and then, daily papers as well as horticultural. Mails here are very slow, as in the interior they are transported on men's backs to the different villages, and oftentimes I am far off from any habitation."

Florists' Hail Association.

For once at least the Florists' Hail Association has been a lasting benefit. The following amounts have been paid to St. Louis florists for glass broken by hail during the storm of May 21:

Alexander Waldbart, \$69 80.
C. Young's Sons, \$3,739.86.
Robert F. Tesson, \$893.02.
Chas. Holzborn, \$27.40.
Felter & Breuckner, \$19.25.
Michel Plant & Bulb Co., \$1,109.60.
Jordan Floral Co., \$143 78.

Over 100,000 square feet of glass was paid for. Three St. Louis florists had neglected to pay their 6th assessment, and therefore were unable to receive benefits.

JOHN G. ESLER.

Aquatics.

ED. AM. FLORIST:—Please present my compliments to Mr. Tricker, and say that the dozen aquatics were not intended to be a catalogue of the most profitable or easily grown, and that I will endeavor to be "instructive" again presently.

JAMES MACPHERSON.

SEGGERS BROTHERS

Wholesale Bulb Growers,

LISSE, ——— HOLLAND,

Beg their friends in the Trade and intending purchasers to send their orders in now.

Ask for our 1896 Catalogue.

PRIMULA SEED.

This Year's Crop. Now Ready.

Our superb mixture contains only the choicest fringed strains, and will give the greatest satisfaction. Trade pkt. 50c.

Cineraria Seed.

Our strains are unsurpassed for richness of color as well as for size and perfection of form. Trade pkt. 50c.

HERRMANN'S SEED STORE,

413 E. 34TH STREET,

Near Long Island Ferry, **NEW YORK.**

Agent for LYSOL, the ideal insecticide.

**L. HARRISII BULBS
FOR JULY DELIVERY
AT SPECIAL PRICES
IF ORDERED NOW.
SEND FOR PRICES.**

Import Price List **DUTCH BULBS**
now ready. Free.

DAN'L B. LONG,

Jobbing Florist & Importer of Forcing Bulbs,
BUFFALO, N. Y.

C. H. JOOSTEN, Importer,
193 Greenwich Street, **NEW YORK.**

SPECIALTIES:

**Bulbs, Azalea Indica, Palms, Roses,
and all kinds of Nursery and
Fruit Tree Stocks.**

Catalogues on application.

SEEDS

... FOR THE ...
Garden and Farm

Vegetable and Flower Seeds. All the newest and best varieties—quality unsurpassed. Illustrated Catalogue **FREE.**

WEEBER & DON, Seed Merchants
and Growers,
114 Chambers St., New York City.

TOMATO

PERFECTION.

Strong, large transplanted plants, \$3.00 per 1000. Low express rates.

PETER J. SCHUUR, Kalamazoo, Mich.



JAPANESE LONGIFLORUMS

ON TIME (Sept. 25th),

I must have your order at once. I guarantee them to be positively free from disease; to be all single crowns; and to deliver by **SEPT. 25th.** Write me for prices today. Tell me how many you will need; also tell me your other wants in forcing stock. I will quote you lowest import figures. I handle the best **Dutch, German, French, English, California and Bermuda Bulbs, also Azaleas and Lily of the Valley.** Your interests are my interests; I shall be pleased to give my customers the benefit of my 19 years' experience in this special line. Write me to-day.

G. C. WATSON, IMPORTER AND JOBBER IN
BULBS, ROOTS AND PLANTS. 43 N. 10th St., Phila., Pa.



PROFITABLE BLOOMS. CUSHMAN'S GLADIOLUS BULBS

planted about **June 1st** throw fine spikes in **September** when flowers are scarce.

TRY A FEW.

Very fine mixed, \$1.00 per 100; \$8.00 per 1000. Cash please.

CUSHMAN GLADIOLUS CO., Euclid, O.

VAN ZANTEN BROTHERS, Hillegom, Holland.

Extra quality of **HIGH GRADE FORCING BULBS AT LOW PRICES.** We now book orders for **Azalea Indica, Palms, etc.** The largest collection of sundry bulbs and plants.

APPLY FOR WHOLESALE CATALOGUE.

When writing mention the American Florist.

Plant Auction.

**SALES EVERY TUESDAY AND FRIDAY
THROUGHOUT THE SEASON.**

A. & F. RÖLKER, Auctioneers.
106 Liberty Street, **NEW YORK.**

TUBEROUS Begonia Bulbs.

All colors separate.

\$2.00 per hundred. \$18.00 per thousand.

L. C. BOBBINK, Rutherford, N. J.
Branch of the Horticultural Co., Boskoop, Holland.

When writing to any of the advertisers on this page please mention the **AMERICAN FLORIST.**

WE ARE HEADQUARTERS ON BULBS FOR FORCING, FLOWER SEEDS FOR FLORISTS ENGLISH MUSHROOM SPAWN.

Special prices on application.

JOHN GARDINER & CO., Seedsmen,
631 Market St., Philadelphia, Pa.

**The Directory
For 1896
IS NOW READY.
Price \$2.00.
AMERICAN FLORIST CO.,
CHICAGO.**

Denver, Colo.

Decoration Day trade was good; out of town trade much better than expected. Local trade would have been better had not the weather been so threatening.

The greenhouses of G. B. Connon at Lafayette, Colo., were totally destroyed by hail May 30. Mr. Connon's loss was over \$1,500. He will rebuild at once.

Perry C. Gallup is preparing to build an addition to his University Park range, two new short-span-to-the-south rose houses, each 18x125 feet.

The Colfax Floral Co. is building a large carnation house.

Mrs. R. Mauff is building at Harmon a large asparagus house 25x75 and 20 feet high.

The H. H. Given Co. are commencing to tear down their plant at Lincoln and Alameda avenues, their lease having expired. Most of the material will be moved and erected on the property owned by the company at Arizona and Washington streets, where their Red Leaf Conservatories are situated.

The Colorado Florists' Exchange began business May 20 at 1709 Curtis street, and reports having sold out clean every day up to date. This is the only florists' commission house west of Chicago, and undoubtedly fills a long felt want. The company was formed by ten of the leading growers of Denver and vicinity, and is in fact more of a co-operative association than a commission house. Their plan of operation is as follows: The company is stocked for \$2,000 (paid in) and each member after taking not less than a certain number of shares signs a contract for one year to allow the Exchange to handle exclusively his entire cut, pledging the stock taken and paid for as security for the performance of his contract. Aside from this the exchange is conducted as a regular commission house; florists not stockholders may bring their stock in for sale, paying the usual 15% commission, and participate in all the benefits of the Exchange except that they have no voice in making rules for the conduct of the Exchange, nor in the election of officers, and of course they will not participate in the earnings, which will undoubtedly be quite a tidy sum each year. The officers of the Colorado Florists' Exchange are A. M. Lewis, president and manager; Perry C. Gallup, secretary-treasurer; Lyle Waterbury, Frank Hall and Harrison H. Given, directors.

Mr. Chas. Adams, superintendent of the capitol grounds, has wrought a wonderful change in the appearance of the place during the last six weeks. Although hampered for lack of sufficient help he has in the remarkably short time allowed him succeeded in getting a good stand of grass that will be ready to cut next week, and has also planted several hundred trees and a large number of shrubs, etc., all of which are up and coming. Mr. Adams has displayed ability of a high order in this line, and has agreeably surprised every one by the quick and excellent results obtained by him.

The entire force at the city parks under the efficient management of Supt. A. J. Graham are busy planting out the large amount of bedding stuff grown in the city park greenhouses for park purposes. Mr. Graham reports that they will plant over a quarter of a million plants in the city parks this season.

Mr. A. L. Vaughan was in the city last week.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

PINK IVORY,

(MISS AGNES L. DALSKOV.)

The invincible New Chrysanthemum, Strong, healthy plants from 2-inch pots \$1 per dozen; \$5 per 100; \$40 per 1000.

SPECIAL PRICES ON LARGER QUANTITIES.

M. HANSEN, New Durham, N. J.

Antirrhinum Majus Albus.

(GIANT WHITE SNAPDRAGON.)

An Easy Seller. A Wonderful Keeper. A Money Maker. A Good Thing. WANT SOME?

Rooted Cuttings, by Mail or Express, prepaid, per 100 \$1.50; per 1000 \$10.00. From 2-inch pots, per 100 \$3.00.

THE HARRISON H. GIVEN FLORIST CO., DENVER, COLO.



TOKIO NURSERIES,
HEADQUARTERS
FOR.....

Japan Lilies,
Plants, Seeds
ETC.

Write for Catalogue.

TOKIO NURSERIES

KOMAGOME,

TOKIO, JAPAN.

Cable Address:
"NURSERIES, TOKIO."

JUNE OFFER.

Per 100
1000 Alternantheras, red and yellow brt . . \$2.00
1000 Single Scarlet Geraniums, 4-in. pots. . . 4.00
200 Double Pelonias, fine 4.00
1000 Verbenas from seed. 2.00
Pansy Seed, ready June 15th, \$1.00 per ounce.

Cash with order, please.

JOS. H. CUNNINGHAM, Delaware, O.

CYCAS REVOLUTA.

We are prepared to sell you just what you want at reasonable rates.

Write for quotations.

WISCONSIN FLOWER EXCHANGE,
Box 87. MILWAUKEE, WIS.

Fine strong 'Mums from 2 1/2-inch pots, \$2.50 per 100, in the following varieties: Mrs. E. G. Hill, Mrs. J. G. Whiffle, Mrs. Kate Brown, Mutual Friend, Golden Queen, Chas. Davis, Harry Baisley, Mrs. J. Jones, Diana, Louis Boehmer, M. J. Palmer, Inter Ocean, E. G. Hill, G. W. Childs, Comrades, Princess Beatrice, M. Boyer, L. Canning, Golden Wedding, Niveus, M. Wanamaker, Queen, Eda Prass, Maud Dean, Gold, and W. H. Lincoln. Cash with order.

A. R. ALDRICH, Springfield, O.

Portland Cement Joints.

I would like to inquire through the FLORIST if iron pipes put together with Portland cement will give good satisfaction for hot water. Will it answer as well as red lead and oakum if a good space is given for the cement? C. F. G.

If made properly the Portland cement joint will answer for hot water work and will give as much satisfaction in every way as the red and white lead joint.

To make the joint, first, take a piece of rope of any kind, and of sufficient size to make a tight fit, cutting off enough to go around the pipe and lapping over about one inch and drive this rope to bottom of joint with a caulking tool and hammer. Second, press into the joint enough of the Portland cement to make about one inch thick all around, then drive in another piece of rope as before. Repeat this operation until joint is full. Cement should be mixed to the consistency of stiff mortar.

SAMUEL BURNS.

YOU CAN'T AFFORD to do business without a copy of our trade directory and reference book.



All Chamerops, Phoenix and many others now in stock. A full list on application.

FOR AUGUST DELIVERY.

Per 100 Per 1000 Per 5000
Kentia Belmoreana.....\$1.25 \$10.00 \$45.00
Kentia Forsteriana.....1.25 10.00 45.00

J. L. SCHILLER, Rutherford, N. J.

PANSY X SEED.

The Jennings strain of finest American grown Pansy Seed. New crop ready June 15th. The grandest combination of colors ever sent out.

The largest flowering.

The strongest growing.

and the most beautiful colors in great variety.

Very finest mixed:

Pkt. of 2500 seeds, \$1.00; 1/2 oz. \$3.00; 1 oz. \$6.00;

3 ozs. \$15.00. White and yellow in separate pkts.,

same as above. Half pkts. 50 cts.

CASH WITH ORDER.

E. B. JENNINGS, L. B. 254, Southport, Conn.

Grower of the finest Pansies

THE COTTAGE GARDENS,

C. W. WARD, Mgr.

QUEENS, L. I., N. Y.

WHOLESALE SPECIALTIES:

Carnations, Chrysanthemums,
Cannas, Geraniums.

NOVELTIES FOR THE TRADE.

New Asparagus Sprenger! 30c. New Spiraea Anthony Waterer 25c. New Climbing Meteor Rose 30c. New Golden Rambler, Yellow Souper, New Crimson Rambler \$5 per 100. New Justicia, New Double Rudbeckia, New Cannas, Carex Japonica, Bougainvillea, Gladioli, Dbl. New Life Geranium, Geranium Acres Kelway, best pink. Send for Catalogue of Novelties and Trade Bulbs at low prices. A. BLANC & CO., Japanese Jardinieres at very low prices. List free. Philadelphia, Pa.

SPECIALTIES

IN BEST VARIETIES.

ROSES, from 3-inch pots.
CARNATIONS, for fall delivery.
CHRYSANTHEMUMS.
SMILAX.

VIOLETS.

Prices low. Send for list.

WOOD BROTHERS, FISHKILL, N. Y.

THE DIRECTORY

For 1896.

IS NOW READY.

Price \$2.00.

AMERICAN FLORIST CO.

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MAY INTEREST YOU.

If so, take our Mid Season list that appeared in last week's AMERICAN FLORIST and add these for variety sake, and you need not fear the "other fellow" if you do them well.

WHITE. Per 100
 MDLLE. THERESE RIV. \$3 00
 MISS FLORENCE PULLMAN. 3 00
 THE QUEEN. 3 00

YELLOW.
 A. H. FEWKES. 3 00
 MRS. CRAIG LIPPINCOTT. 4 00
 PHILADELPHIA. 8 00

PINK.
 INTER OCEAN. 3 00
 V. H. HALLOCK. 3 00
 VIVIAND MOREL. 3 00

SUNDY COLORS.
 AUTUMN GLOW. 3 00
 CHAS. DAVIS. 3 00
 EDWARD HATCH. 3 00
 MRS. GEO. WEST. 5 00
 NYANZA. 5 00
 SILVER CLOUD. 3 00

NATHAN SMITH & SON.
 Adrian, Mich.

FORGET-ME-NOT

BLUE PERFECTION.

As a cut flower, read what two of the oldest and best known houses of Philadelphia say:

MR. ALBERT KNAPPER:—This season we have worked up quite a little trade on Myosotis, and consider it a good cut flower for the retail florist, which I think will grow more in favor.

SAMUEL S. PENNOCK.

MR. ALBERT KNAPPER:—We take great pleasure in recommending a good article, and can say that your Myosotis is a fine, large, strong flower, of a grand color, and the best we have seen for a great while.

CHARLES FOX.

A GOOD INVESTMENT. A GOOD KEEPER.
A GOOD SELLER. EASILY HANDLED.
NO DISEASE. ORDER NOW.

It has averaged at the wholesale market this winter from \$1.50 to \$2.00 per 100 flowers. Treatment similar to Violet Marie Louise or Carnations, from 40 to 50 degrees.

PLANTS, 2-in. pots, ready now, per 100, \$5.00.
ROOTED CUTTINGS, per 100, \$3; per 1000, \$25.
 Cash with order please, or C. O. D.

ALBERT KNAPPER, Frankford, Phila., Pa.

THE DIRECTORY

For 1896

IS NOW READY.

PRICE \$2.00.

American Florist Co.,

DRAWER 164

CHICAGO.

CLEMATIS.

Doz. 100

Two years, all large flowering, choice named, leading kinds . . . 35c each, 4.00 30 00
 Strong, heavy plants . . . 1.50 30 00
 H. P. Roses, 2 years, 4-inch pots . . . 1.50 10 00
 Clematis Jackmanni, nice young plants for potting or planting up for fall sales 1.00 8 00
 Daisies dbl. Eng. Snowcrest, Snowflake .50 1 00

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VINCA MAJOR VARIEGATA,

in 4 and 4½-inch pots.

FIRST SIZE. \$10.00 per 100
 SECOND SIZE. 8.00 per 100
 In 2-inch pots 2.00 per 100

C. LENGENFELDER,

Beileau and Western Avenue, CHICAGO.

Always mention the American Florist when writing to advertisers.

FOR TWO WEEKS ONLY.

Special Offer. Specimen Palms.

LATANIA BORBONICA, 5 to 6 feet, 6 to 8 leaves, \$3 50 \$4 and \$5 each.

PHOENIX CANARIENSIS, 5 to 6 feet, 6 to 7 leaves, \$4 and \$5 each.

ARECA LUTESCENS, 5 to 6 feet, 4 to 8 shoots, \$5, \$6 and \$7 each.

SABAL GLAUDESCENS, very hardy vase plants, 2½ to 3 feet, \$1.50 each.

KENTIA MCARTHURII, 3 to 3½ feet, well furnished, \$2.50.

DRACÆNA INDIVISA LINEATA, fine vase plants, 3 to 4 ft. \$1, \$1.50, \$2 ea.

PRITCHARDIA GRANDIS, 3 feet, 7 to 8 leaves, perfect gems, \$4 each.

The above prices are 25 per cent. less than regular trade prices.

N. B.: How many Liliun Harrisii Bulbs will you plant? Let us give you prices. We can beat the bottom, we know we can. We live right there in Bermuda and know all about the stock.

BELLE SIEBRECHT ROSE, strong plants, 4-inch pots, \$12.00 per 100; 2½-inch pots, \$8.00 per 100.

SIEBRECHT & WADLEY,

NEW ROCHELLE NURSERIES,

NEW ROCHELLE, N. Y.

PALM SEEDS

On hand in splendid condition.

	Per 100	Per 1000	Per 5000
Areca lutescens	\$1.50	\$10.00	\$47.50
Areca rubra	1.50	10.00	47.50
Geonoma gracilis . . .	1.75	12.00	55.00
Geonoma Schottiana . .	1.75	12.50	60.00

Non-germinating seeds will be replaced.
 Our Palm Growers' Guide free on application.

SCHWAKE SEED CO. (Inc.)
 404 East 34th St., NEW YORK.

AZALEAS, the finest commercial varieties.

PALMS, large, healthy stock, well grown.

ARAUCARIAS, from cuttings only.

BAY TREES, perfect shape, in all sizes.

SANDER, Bruges, Belgium.

Agent: **A. DIMMOCK,**
 106 & 108 Liberty Street, NEW YORK.
 SEND FOR SPECIAL OFFER.

Celery Plants.

Strong growth, White Plume, Golden Heart, and Giant Pascal, per 1000, \$1.40; per 10,000, \$12.00.

Stone Tomato Plants, \$3.00 per 1000.

COLUMBUS SEED CO., Columbus, O.

GOOD STOCK, LOW PRICES.

GERANIUMS, assorted, 2½-inch, \$2.50 per 100; 4-inch, \$5.00 per 100. La Favorite, 3-inch, \$3.00 per 100; 4-in. \$5.00 per 100 (all fine double varieties).

COLEUS, Crimson and Golden Verschaffeltii, Golden Bedder and Glory of Autumn, 2½ in. pots, \$2 per 100. **ALTEIANANTHERA P. Major**, strong plants, \$1.50 per 100. **Aurea nana**, \$1.50 per 100. Rooted Cuttings 50 cts per 100.

CROZY CANNAS from flats, \$3.50 per 100.

JOHN SCOTT, Keap St Greenhouses, Brooklyn, N. Y.

VEGETABLE PLANTS.

TOMATO, CABBAGE and SWEET POTATO. Good, strong plants, 75 cts. per 1000; \$6.00 per 10,000.

Long distance shipping a specialty.

E. C. HARGADINE, Felton, Del.

CELERY PLANTS, strong and stocky, \$1.00 per 1000. Safe arrival guaranteed. Special low express rates.

Index of "How to Grow Celery Anywhere." Post free. Send for it.

PETER J. SCHUUR, Kalamazoo, Mich.

We devote our whole attention to

DAHLIAS

and not only have the LARGEST and BEST collection in America, but guarantee our stock true to name. We are now filling orders for trial grounds. Every SEEDSMAN and FLORIST interested in DAHLIAS should send for our new descriptive Trade List.

W. P. PEACOCK Atco, N. J.

Wm. Simpson.

CUT OCT. 15TH.

The Earliest Large CHRYSANTHEMUM. Price to the Trade, \$17.50 per 100; \$100.00 per 1000.

JOSEPH HEACOCK, Wyncote, Pa.

E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

WANTED.

400 to 500 small 2 or 3 inch Palms of the following kinds. Quote lowest prices.

Latania Borbonica, **Phoenix Canariensis**,
Kentia Forsteriana, **Rectinala**,
Belmoreaana, **Daclytilera**.
 Also prices on 400 or 500 red, white, and pink GERANIUMS.

WILLIAMS & SONS CO., Batavia, Ill.



SEEDLINGS OF
PHOENIX SYLVESTRIS and
LATANIA BORBONICA, from
 flats, 75c. per 100, postpaid.
SWORD FERNS, large, \$3
 per 100; \$15 per 1000.

Send for Special Trade List and Catalogue.

REASONER BROS.,
 ONECO, FLA.

Celery Plants.

READY JUNE 8th, at \$2.00 per 1000.

Strong stocky plants, lightly packed. Satisfaction guaranteed. Low prices on large lots.

G. VAN BOCHOVE & BRO.,
 KALAMAZOO, MICH.

Fancy Caladiums....

Fifteen varieties, among which are some of the best of the New Brazilian in both light and dark shades. Strong plants from 2½-inch pots, 80c. per doz.; \$5.00 per 100, prepaid to any point in the U. S., \$1.00 per 100 additional to Canadian points.

THE AMERICAN EXOTIC NURSERIES,
 SEVEN OAKS, FLA.

Rochester, N. Y.

Decoration Day is past; plenty of cheap bedding stuff was disposed of during the week, cut flowers were very plenty and everybody had a surplus of outdoor flowers. The demand for bouquets and cut flowers for adorning the graves was not so brisk as in former years, but sales in plants of the cheaper grades may be put down as rather lively, although owing to the cutting in prices no florist in town may boast of an increase in cash sales. The weather was delightful and the cemeteries were thronged with thousands of people during the whole of that day and Sunday. Florists were busy planting beds and filling vases, and when night came many of them were glad that the hard and in many instances unprofitable work of the day was past. Most of us are willing to work hard if there is a reasonable profit in sight, but on this occasion with many it was only a question of disposing of stock on hand at any price, or else to keep it on hand and run chances of later sales. However, there will be a demand for bedding stuff up to the middle of June at least, and a good part of the stock left over may be disposed of yet. Otherwise the week passed without special noteworthy event, trade in the stores was only fairly good, but nearly all were kept busy with plant orders and the planting of flower beds.

As we had two successive and very generous rainfalls lately, the early planted stock shows a decided improvement, and the remaining small stock which is to go out has now a better chance than was anticipated. Asters, stocks and other annuals, which may be wanted for cut flowers, will not need to be watered when planted, nor is there any danger of drying up as long as the ground is in so moist a condition as at present; they will take root at once and when dry weather sets in again will be firmly established.

J. B. K.

Toronto.

I am pleased to have to report that just now all those who deal in plants are too busy to talk except for money. A great business is being done; some of the growers are already cleared out of geraniums. A great many people seem to have got on to the fact that Gen. Grant is a good geranium; the demand for that variety has been altogether unprecedented. Prices have kept fairly good excepting in annuals, which have been selling down below cost. Many of the butchers have been doing considerable in the plant line, in fact some of their stores look more like florist stores now that the meat is all kept in the ice safe. Curious combination—flowers and meat.

E.

The Oaks Greenhouse Co., Jackson, Mich.

	Per 100
Begonias in variety, 2½-inch pot plants.....	\$2.50
Chrysanthemums, 2½-inch pot plants.....	2.50
K. Cuttings, standard vars.....	1.00
Marguerite Daisy, 1c. Cuttings.....	1.00
2½-inch plants.....	2.50
Glechoma Hederacea, K. Cuttings.....	2.50
Verbena, best strain.....	.75
Vinca Variegata, 1c. Cuttings.....	1.00
Cuphea, Pilea, German Ivy, etc.....	1.00
1¢ to be sent by mail add 10¢ per 100. Cash with order.	

Bulbous Begonias.

LAING'S STRAIN. In separate colors.

Lilium Longiflorum, Tuberoses, Spiræas, etc. Now on hand.

Ask for prices.

HULSEBOSCH BROS., Englewood, N. J.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

CANNAS.

FINE PLANTS FROM POTS. \$4.00 per 100; \$35.00 per 1000.

BRENNINGSII,

" Variegated,

PAUL MARQUANT,

EXP. CRAMPBEL,

MME. CROZY,

MARQUISE DE L'AIGLE,

J. WILKINSON ELLIOTT,

FLORENCE VAUGHAN, dormant bulbs only, @ \$8.00 per 100.

GREENHOUSES,
WESTERN SPRINGS, ILL.VAUGHAN'S SEED STORE, 84 & 86 RANDOLPH STRE T,
CHICAGO.

Mention American Florist.

HERR'S CARNATIONS.

WM. SCOTT.....

\$1.25 per 100; \$10.00 per 1000

CUT CARNATIONS.

Orders for cut carnations filled at \$1.00 per 100. None west of Pittsburg.

CASH WITH ORDER OR C. O. D.

L. B. 496.

ALBERT M. HERR, LANCASTER, PA.

Mention American Florist.

Our 1895 PALM COLLECTIONS are better than ever, and consist of 17 3 to 4-inch for \$3, or 34 for \$5; 10 4 and 5-inch Palms for \$3.50, or 20 for \$6.00; 6 6-inch Palms for \$5.00, all the best varieties.

ROSES—	Per 100
Monthly and Tea, best kinds, 2-inch . . .	\$ 2 50
" " " 3-inch . . .	5 00
" " our selection . . .	4 50
Hybrid Perpetual, assorted kinds, 2-in . .	2 00
Crimson Rambler.	10 00

FERNS—	
Adiantum Cuneatum, 3 and 4-inch, \$6 & 10 00	
" Farleyense, 3-inch.	25 00
" " 4-inch.	50 00
" Capillus Veneris, 3 inch . . .	5 00
Sword, 3-inch	5 00
CHRYSANTHEMUMS, 2½ best kinds, 2½-in . .	2 00
BEGONIAS, assorted kinds, 3-inch.	\$2 to 6 00
FUCHSIAS, assorted kinds.	2 00
SWAINSONA, 4-inch	5 00
COLEUS, all kinds	2 00
GERANIUMS, assorted kinds.	3 00

Samples free. Send for Catalogue.

WILLIAMS & SONS CO.,

BATAVIA, ILL.

100,000 Strong Field-Grown ROSES

(Budded and own roots) for Fall delivery.

Try our new BIOTA AUREA NANA.

Thousands of Olea Fragrans, Azaleas, Camellias and Banana shrubs.

Prices on application.

P. J. BERCKMANS, Augusta, Ga.

Do You Need Roses?

I have 25,000 good ones out of 2½-inch pots, and can give you prices that will open your eyes.

BRIDES.....	3 cts.
BRIDESMAIDS.....	3 cts.
MERMETS.....	3 cts.
PERLES.....	4 cts.
METEORS.....	4 cts.

This stock is in good shape. Cash with order.

CHAS. KOEPPEN, SEDALIA, MO.

CARNATIONS A SPECIALTY.

Rooted Cuttings. Young Plants. Field Grown Plants in season. Write for prices.

GEO. HANCOCK & SON, Grand Haven, Mich.

CARNATIONS.

F. DORNER & SONS CO.,

LA FAYETTE, IND.

100,000 LATE CABBAGE.

Drumhead Flat Dutch and Snerhead. 100,000 YELLOW JERSEY and NANSERMOND Sweet Potato Plants, \$1.00 per 1000. Cash.

J. W. CARROTT, Brookston, Ind.

When writing mention the American Florist.

CHRYSTHEMUMS, for June planting, first stock in the country. Send us your list to price.

ROSES—The New Pink Souper, 2½-inch, @ \$4.00 per 100.

ROSES—Clothilde Souper, 2½-inch, @ \$4.00 per 100.

New Yellow Marguerite.

25 Rooted Cuttings for \$1.00.
Strong 2½-inch, 6 for \$1.00.

The best Daisy for cut flowers. A pleasing shade of yellow; long stems; blooms the year around. Sample blooms mailed on receipt of 10 cts.

3-inch BRIDES, BRIDESMAIDS, METEORS, 6 cts. Nice, clean stock.

Also small MUM plants.

ASPARAGUS PLUMOSUS, strings 8 to 12 feet long, 75 cts. per string.

CASH WITH ORDER.

F. BURKI, Bellevue, Pa.

CARNATIONS

Orders solicited for ROOTED CUTTINGS.

KOHINOOR takes the lead.

Other varieties of the Standard sorts at standard prices. All healthy and strong.

C. J. PENNOCK,

The Pines. KENNETT SQUARE, Chester Co., PA.
Mention American Florist

CARNATIONS.

ROOTED CUTTINGS.

In large quantities, see list of varieties in FLORIST, March 21st. Send for price list.

H. WEBER & SONS, Oakland, Md.

Mention American Florist.

DO YOU WANT CARNATIONS?

If so, why not GROW the BEST?

50,000 ROOTED CUTTINGS, including Daybreak, Wm. Scott, Goldfinch, Lizzie Gilbert, Emily Pierson, Lizzie McGowan, Tidal Wave, S. Spray, Hine's White, &c. Can do you justice in quality and prices. Write me before you buy. Address CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

CARNATIONS.

Rooted Cuttings in immense quantity, strong and well-rooted and particularly free from rust.

Daybreak, Wm. Scott, Thos. Cartledge, Tidal Wave \$2.00 per 100; \$15.00 per 1000.

Lizzie McGowan, Silver Spray, Portia, \$1.50 per 100; \$12.00 per 1000.

Lady Campbell Violets in any quantity, \$1.00 per 100; \$8.00 per 1000.

JOS. RENARD, Unionville, Chester Co., Pa.

Della Fox and Annie H. Lonsdale

ALL SOLD.

MYERS & SAMTMAN, Chestnut Hill, Phila.

NEW ROSE

"Mrs. PIERPONT MORGAN"

Listen for a moment to what a voice from far off Springfield, Illinois, has to say about our young stock of this rose:

May 4, 1896.
"EDWIN LONSDALE, Chestnut Hill, (Station H), Philadelphia, Pa.

"DEAR SIR:—Box of 'Morgan' rose plants arrived Saturday in good shape. Fine Plants. I would like to know how you produce plants of such size in a two (2) inch pot?"

All I can say is that it is all owing to the natural vigor of the variety, and perhaps to some extent to the natural rose growing qualities of our soil.

We have a few more left of the same size. Order early or you may get left, for I do not know of a more profitable variety to grow for cut flowers than MRS. PIERPONT MORGAN.

Don't forget our address:

EDWIN LONSDALE, Station H,
Chestnut Hill, PHILADELPHIA, PA.

Home of the Queen of Roses.

BELLE SIEBRECHT.

NOW READY

Send in your orders early; the demand is great. The finest pink ROSE ever introduced.

2-inch pots. . . . \$12.00 per 100

2-inch pots. . . . 55.00 per 500

2-inch pots. . . . 100.00 per 1000

3-inch pots. . . . 18.00 per 100

NOTICE:—All orders filled in strict rotation.

SIEBRECHT & WADLEY,

Rose Hill Nurseries, NEW ROCHELLE, N. Y.

Rogers Park Floral Co.

GOOD FIRST CLASS STOCK.

	In 2½-inch pots	per 100	per 1000
Am. Beauties	5	00	\$40 00
C. Testout	4	00	35 00
Kaiserin Victoria	4	00	35 00
La France	4	00	35 00
Belle Siebrecht	4	00	35 00
Bridesmaids	3	00	25 00
Brides	3	00	25 00
Perles	4	00	35 00
Meteors	3	00	25 00
Meteors, 4 inch pots	5	00	40 00

Orders for less than 100 not accepted
Ready for shipment now.

Send Orders to 41 Wabash Ave., Chicago.
Mention American Florist.

ROSES. NOW READY.

First-Class Stock, 2½-inch pots.

	Per 100	Per 1000
PERLES	\$3.50	\$30.00
METEORS	3 00	25 00
BRIDES	3 00	25 00
BRIDESMAIDS	3 00	25 00

A. G. PRINCE & CO.,

88 Wabash Ave., CHICAGO.

ROSES.

PERLE and M. NIEL plants, from 2½-inch pots, \$4.00 per 100.
PERLE, SUNSET, MERMET, VICTORIA, MME TESTOUT, ALBANY, M. NIEL, PINK and WHITE LA FRANCE, strong, healthy plants, from 3 inch pots, \$7.00 per 100. I will send sample to parties wishing to buy.
MOON VINE, \$3.00 per 100. Terms cash with order.

JOSEPH HEINL, Jacksonville, Ill.

A FINE LOT OF

Meteors,
and La France,

Now ready, out of 3 or 4-inch pots. Write for sample and prices to

GEO. A. KUHL, Pekin, Ill.

Roses, Roses and Roses.

All the best NEW and STANDARD varieties for winter forcing now ready in A1 stock, and of

MRS. PIERPONT MORGAN,

the most profitable known variety for forcing, and of the easiest possible culture I have a grand lot now ready. Write for special prices on this variety for large lots to

JOHN N. MAY, Summit, New Jersey.

Mention American Florist.

REINBERG BROS.,

CLEARING OUT SALE OF FINE YOUNG ROSE PLANTS:

Meteors, Kaisersins and Golden Gate, strong, healthy plants out of 2½-inch pots, \$2.00 per hundred.

Brides, Bridesmaids, Meteors, Maiserin, and La France, out of 3-inch pots, \$4.00 per hundred. Fine stock.

Send orders to 51 Wabash Ave., CHICAGO, ILL.

ROSES

BEAUTIES, MERMETS, CUSINS, TESTOUTS, NIPHETOS, PERLES, BRIDES, BRIDESMAIDS, METEOR, HOSTE, LA FRANCE, WOOTTON, WATTEVILLE, AUG. VICTORIA, 2 3 and 4-inch pot plants. Cash with order. Owing to number booked, they will be executed in rotation to assure prompt delivery. Order early.

Address for quotations, VILLA LORRAINE ROSERIES, MADISON, NEW JERSEY.

Last Offer of
SURPLUS STOCK

ROSES. TEAS. ROSES.

Papa Gontier, Marie Van Houtte, Fortune's Yellow,
Mme. Hoste, Cath. Mermet, Gloire de Dijon,
Rainbow, Ernest Metz, Luciole,
W. Bon Silene, Saffrano, Dr. Grill,
Golden Gate, Mrs. Bosanquet, Louis Richard,
De Watteville, Empress Engelen, Wichoralana,
Caroline Kuster, Appoline, Macrophylla,
Eliza Fugler, James Sprunt, Mrs. Degraw,
Martha du Berg, Queen's Scarlet, La Nefle,
Eliza Heyman, Arch Duke Charles, Leo XIII.
Caroline Cook, Cherokee, Furstin Bismarck
\$2 50 per 100; \$22 00 per 1000.

HYBRID PERPETUALS.

Mme. Planter, Gen'l Jacquemont,
Chas. Lefebvre, Dr. Hogg,
Anton Mouton, Prince Camille,
Pierre Notting, Eliza Boelle,
La Rosiere, Pride of Waltham,
Marie Brunnmann, Gloire de Margottin,
Cardinal Patrizzi, Baron de Bonstetten,
Vick's Caprice, Dr. Andry

MOSS ROSES.

James Velth, Mousseline,
Capt. Basroger, Glory of Mosses,
Alice Leroy, Prolific (or) Gracilla,
Henri Martin, \$4.00 per 100; \$35 00 per 1000.

Also a fine stock of YOUNG CARNATIONS, 2½ in. pots, at \$2.50 per 100.

Address NANZ & NEUNER,
582 Fourth Ave., LOUISVILLE, KY.

FOR SALE.
FINE, HEALTHY ROSE STOCK.

Sure to give satisfaction; taken from stock that took First Prizes at Chicago Flower Show, 1895. Terms cash. Samples will be sent on application at the following prices:

	Per 100
500 LA FRANCE, 3-inch	\$5 50
570 WOOTTONS, 3-inch	5 50
225 KAISERIN, 3-inch	5 50
618 PERLES, 3-inch	5 50
275 PERLES, 4-inch	7 00
600 SIEBRECHT, 2½ inch	10 00
700 BRIDES, 2½-inch	3 50
190 KAISERIN, 2½-inch	3 50
575 PERLES, 2½ inch	3 50
CALIFORNIA VIOLETS, 2½-inch	5 00

POEHLMANN BROS.,

Cook County, MORTON GROVE, ILL.
Mention American Florist.

ROSES.

Fine stock from 3½-inch pots, \$4.00 per 100.
ETOILE DE LYON, MAMAN COCHET,
MRS. DEGRAU, BRIDE,
MARIE GUILLOT, BRIDESMAID,
MARY WASHINGTON, MME. HOSTE,
MERMET, MME. F. KRUGER.

TERMS CASH.

NATIONAL PLANT CO., Dayton, O.

ROSES.

2½-inch, \$25.00 per 1000; \$2.75 per 100.
BRIDESMAID, HERMOSA,
MARIE GUILLOT, LA FRANCE,
SOUPERT, MALMAISON,
GOLDEN GATE.

\$30.00 per 1000; \$3.50 per 100.

PINK SOUPERT, WOOTTON,
BEAUTE INCONSTANT, NIPHETOS,
PERLE DES JARDINS, MME C. TESTOUT,
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Fine, strong, 2½ inch stock.

Terms, cash with order.

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ROSES! ROSES!

Choice, well established
plants, free from disease.

BRIDES, } 2½-inch pots,
BRIDESMAID, } \$3.50 per 100.
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Plants from 2½ and 3-inch pots.

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WOOTTONS, \$4 a 100; \$35 a 1000. 3 in. \$6 a 100.
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R. F. TESSON,

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Conneaut, O.

Spring trade here has been very good, the sales being far in advance of previous years. The chief call has been for flowering plants, double geraniums being the favorites. Coleus and other foliage plants have never been extensively used, but this year several large beds will be planted with them, which may tend to increase the demand another season. The nights are very cold still, although the mercury does not touch the freezing point, still soft stuff gets badly chilled, and there is a good deal of bedding out yet to be done. For five days previous to Decoration Day a heavy gale from the west prevailed which whipped all the outside flowers to pieces, as a consequence, carnations, roses, and sweet peas were in good demand and sold well. Decoration Day trade was the heaviest known, owing to the scarcity of outside flowers.

Miss E. E. Venen, the leading florist here, intends remodeling her entire plant this summer, and will erect a carnation house 60x20 with office 20x12 in front. Lovers of old-fashioned roses and herbaceous plants would have a great treat just now walking round her place, where roses planted 40 years ago by her late father and still tenderly cared for are in full bloom. H. Y.

Orange, N. J.

Mr. Henry Bird, of Newark, delivered an interesting lecture on "The Evolution of a Flower," in Decker's Hall, on May 18th, under the auspices of the New Jersey Floricultural Society. About 150 persons, including prominent society people were present, and the hall and stage were decorated with a fine collection of orchids, carnations and foliage plants.

The speaker explained the theories of evolution and origin of species as expounded by Darwin, Haeckel, Buchner, Romanes and Drummond, and illustrated his remarks with specimens of animal and vegetable growth, showing how plant life resembles animal life in many characteristics and elucidating probable methods of transition from plant life to animal existence. The lecture was greatly enjoyed by those who were present.

Lenox, Mass.

On Wednesday evening, May 27th, J. F. Huss gave his last bachelor supper. His many friends in Lenox gathered around him in response to an invitation, and were entertained in right royal style. After partaking of a substantial repast, the "health of the bride and groom" was responded in a very hearty manner and suitable remarks were made expressing the sentiments of all present. Songs, recitations and stories were indulged in until the "wee sma' hours" and after singing "auld lang syne" the company dispersed, and the well known sanctum sanctorum never held a more jolly crowd than those who assisted Mr. Huss to bid farewell to bachelorhood. May his future be happy as well as prolific.

WEST ISLIP GREENHOUSES.

MARIE LOUISE VIOLETS—Rooted runners, \$4.00 per 1000.

ROSES—La France, Bridesmaids, Brides, Perles, and American Beauty, 3-inch pots extra fine stock, \$6.00 per 100. Cash with order.

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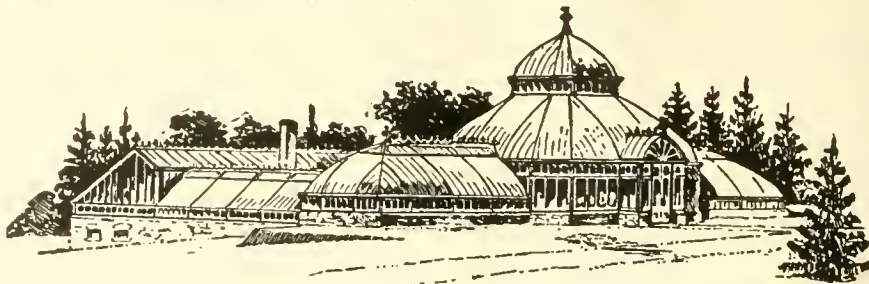
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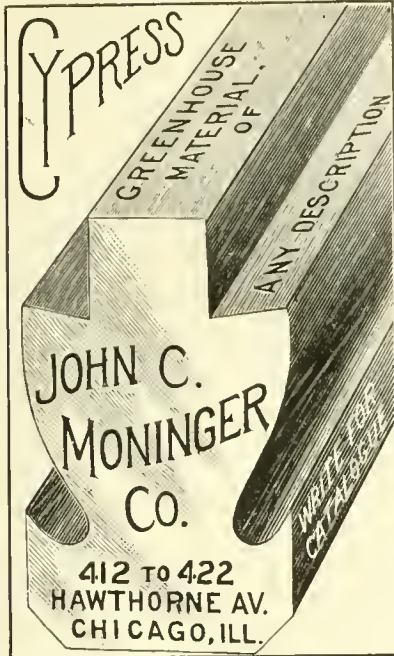
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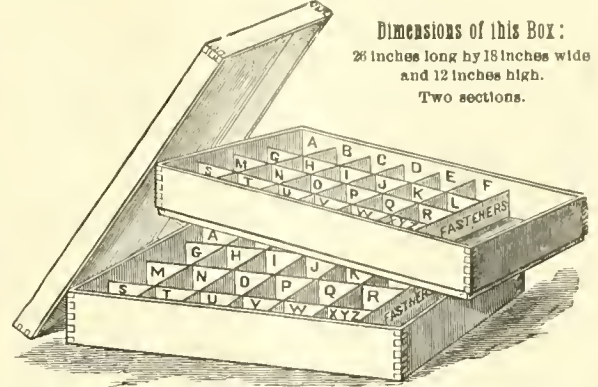
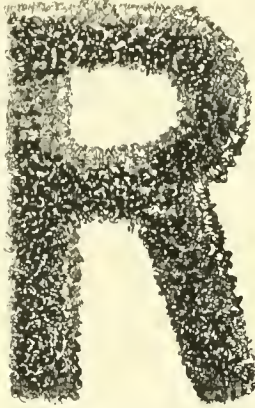
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News Notes.

EXETER, N. H.—Geo. W. Hilliard is adding two more houses to his range.

BLOOMFIELD, IA., Mrs. T. E. Dote has just started in business as a retail florist here.

MONTPELIER, VT.—W. L. Draper, because of ill health, has leased his establishment to E. Jacobsen for three years.

GLASTONBURY, CONN.—G. H. Hale of the nursery firm G. H. and J. H. Hale has sold his interest to his brother J. H. Hale.

HOBOKEN, N. J.—Kogge Bros. have removed to their new store, 616 Washington street, one block below their old establishment.

TIFFIN, O.—Lewis Ulrich has been awarded the contract for furnishing the Baltimore & Ohio railroad with plants for decorating the parks along the line.

MONTPELIER, VT.—E. Jacobsen has taken a three-years' lease of W. L. Draper's establishment and will take immediate possession. Mr. Jacobsen was in Mr. Draper's employ for some time.

MENDOTA, ILL.—Henry Schweitzer lost nearly all his glass by hail May 24. He reports some of the hail stones as weighing one-half pound. He wishes to ask assistance from his brother florists to help him out of his present difficulties.

CONSHOHOCKEN, PA.—Florist W. S. Harry met with a serious accident while visiting Florist Metcalf's place in Norristown. He accidentally ran against a piece of broken glass, suffering a deep cut in the thigh. It is healing rapidly, but he is still lame.

PORTLAND, ME.—Alex Burns of New York and W. J. Stewart of Boston, were in Portland on Tuesday as guests of J. A. Dirwanger, with whom they have gone to the wilderness of northern Maine fully equipped with all the necessities for successful trout fishing.

NEVADA, OHIO.—The Wyandotte Nursery has changed hands, W. H. Jaqueth retiring and W. J. Johns taking his place; W. M. Shank is general manager. They intend to overhaul the greenhouses and put in a new boiler. They have about 6,000 square feet of glass and will grow cut flowers and all kinds of bedding plants.

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Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Dopfel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopfel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

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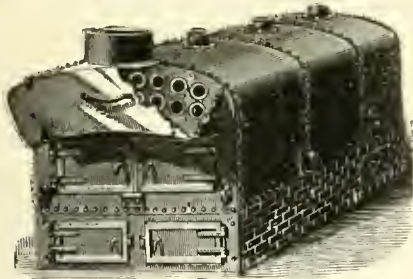
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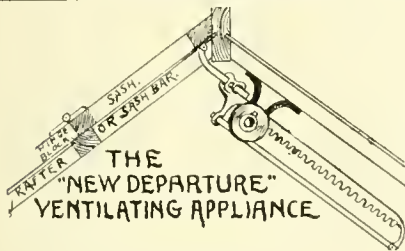
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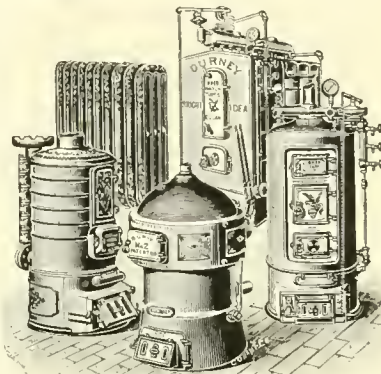


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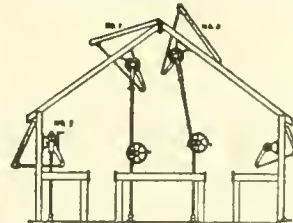
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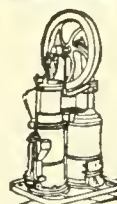


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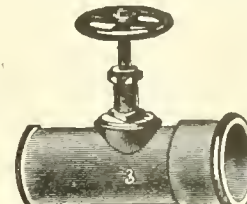
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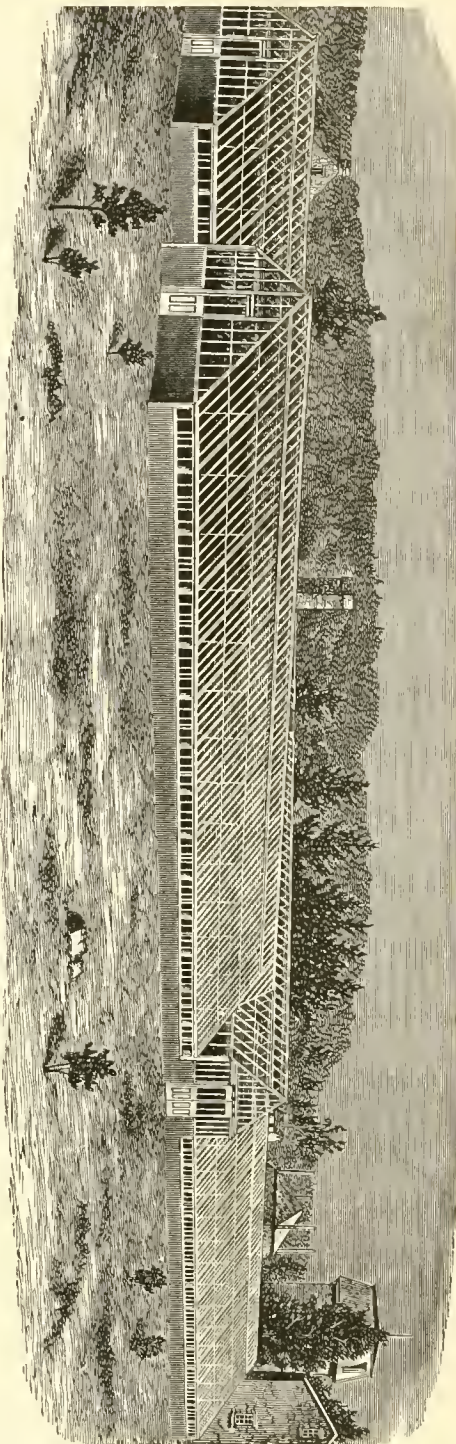
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Vol. XI.

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The twelfth annual meeting will be held at Cleve-
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Carnation Notes.

Pinching back or topping as it is called
in many places is an operation that
requires to be done judiciously as well as
economically. What we want to accom-
plish with it is to prevent the young
plants from blooming and to force them to
form good stools near the ground. A
plant may accidentally get broken off, a
rabbit may have made his meal on some
plants, or the worst of such injuries, the
cut worm comes with his destructive
work. There is only a part of the plant
destroyed, may be half more or less, there
is probably enough of the plant left to
grow out again, and in time make a good
plant, but the part destroyed is a very
important one, just as important as if so
many roots had been destroyed, for that
part may have contained a good many
leaves or most of the leaves. Did you
ever notice the effect of such an injury,
how it keeps the plant back? A glance at
the next uninjured plant will give you a
comparison of the effect of the injury.
Perhaps the near neighbor is a small
plant, in weight perhaps not as much as
the stump left on the other, but it has its
leaves, and you soon will see which will
be the best. Perhaps you will pass it
with the comment: "It has time to grow
out again."

Reckless, careless pinching or topping
comes in effect near these accidental
injuries mentioned. Therefore I say we
must perform this operation judiciously,
at the right time, when it will have no
retarding effect on the growing plant; and
economically; we must not wait until the
young plant has grown beyond the limit
where it should have been topped and
then cut half its growth away. Here is
waste added to the injury.

When is the right time? Before I will
answer this question fully, let us look
into the relations of the leaves to the roots.
Suppose we commence with the cutting
inserted in the sand and kept wet. Clear
sand does not contain any nourishment;
if any it is very little, neither does the
clear water. Nor would the cutting be
able to take up nourishment, but it is able
to take up water at the severed cells at
the cut. The cutting has to depend on
its own strength, on its stored up nour-
ishing elements, a reserve to form new
roots. With the aid of the water these
stored-up nourishing elements take their
natural descending course, the same as in
a normal plant, forming new cells, new
growth; arriving at the cut layers of cells

are formed, what we call callus, and
eventually new roots.

When the rooted cutting, now a new
whole plant, is transferred to the nourish-
ment containing soil, the new roots with
their discriminating power will gather up
food, sustenance for the future growth.
But one must not suppose that the raw
sap as taken up by the roots is in the con-
dition to form new cells, new growth in
its ascending course; no, it has to rise
first into the leaves, where in their broad
expanse under the influence of warmth
and light it will be condensed, refined, put
in the condition to form new cells, new
growth. To do this it has to descend
from the leaves, and in its downward
course between skin or bark and wood, it
adds new layers of cells, new growth to
the body, starts the dormant eyes into
growth, new shoots; descending further
down into the roots it is acting in the
same manner, increasing the body of the
roots and starting out new ones, the same
as it starts out the dormant eyes into
branches above the ground.

This is the normal course of plant
growth. The raw sap rises through the
body more through the outer and
younger layers of cells, the young growth
into the leaves, and descends in its con-
densed form, after furnishing the necessary
part for the upward growth, between
skin or bark and wood, effecting new
growth. Thus we see the importance of
the leaves, and should act judiciously in
removing some. If we deprive the plant
of all its leaves, it will start out, form
new ones again, but not with the aid of
the roots, for they are useless, except to
furnish the necessary moisture to bring
the stored reserve into circulation. Such
a plant is not much better than the cut-
ting in the first place, it has to start from
its own resources until the equilibrium be-
tween roots and leaves is established
again. If we remove part of the leaves
the equilibrium between roots and leaves
is disturbed, and the plant cannot work
in its normal way. So with a reckless,
careless topping we may just prevent or
retard what we intend to accomplish.

Now I will answer the question, when
is the best time to perform this operation
and how it is done best. Suppose the
plants are well established in the field, the
ground is in good condition and well en-
riched. Under these conditions most
varieties will assume their upward growth
to form bud and bloom; but at the same
time the plants will break in their lower
joints. Now if in such a state the heart
of the plant should be pinched out at
once, and not be allowed to grow on.
This is best done by taking hold of the
few leaves in the center and pulling or
bending to the side, breaking it, they snap
off very easy. If a knife has to be used
the plant is surely beyond the time this
work should have been done, and comes
under the category of wasting material.

The sap that it required for the upward growth is directed to the started side branches and enlargement of the body. The side branches will grow on, mature, get ready to bloom, and the same process has to be repeated. Always be careful to do it in time, so the least number of leaves is necessary to be removed. In this way if all is favorable the plant will continue in its normal growth and form stocky well stooled plants. The removal of a few leaves will not cause interruption, the sap is only directed to other channels, already opened for it.

Circumstances may cause deviations. A poor soil and often other circumstances will rather hasten the plant to mature, get ready to bloom, all its strength is consumed in this effort, and nothing is left for its further growth. The eyes in the lower joints will stay dormant, and will not break until the top is removed. Now be careful and leave all the leaves possible, rather resort to a second cutting after the eyes in the lower joints have started; for if the plant in its impoverished condition has to resort to the reserve, where there probably may be very little, very slow progress will be made indeed. Severe dry weather will have the same effect as poor soil. Some varieties will form bushy plants without any topping, they have not the tendency to bloom early. They are the late varieties and often the croppers.

FRED DORNER.



Moving Old Budded Roses.

I have two large Lamarque roses budded with Perle and Niphetos. I am about to move my greenhouses; would it be possible to move these plants successfully? If so, how and when should it be done.

J. F. W.

Moving very large old rose bushes, especially in summer is always attended with considerable risk. I would suggest that J. F. W. keep the plants in question as dry as possible at the root for about a month to bring them into a semi-dormant condition and when he comes to dig them up keep away from the stem on all sides with the spade, at least three feet, removing the soil inside this area with a spading fork to avoid cutting away the fine roots. Dug up in this manner, preserving as many roots as is possible, and doing the work on a cloudy day, protecting the roots from exposure to the air while transferring from one house to the other, planting again as soon as possible in fresh, rich soil, shading for a week, and applying water sparingly at the root, but syringing freely overhead several times a day, there is little danger of dying or even severe suffering from undergoing the ordeal of moving.

ROBT. SIMPSON.

Grubs in Soil.

In soil that I have prepared for my rose house to plant young roses in I find a great number of grub worms just hatching. They appear to be in the cow manure that was piled up with the soil. Will it be safe to put this soil in and plant

roses in it, and if not what can I do to get rid of them grubs if I should use it?

M. E. G.

If the grubs in M. E. G.'s soil are hatched out of the manure they are less to be feared than are those found in the sod, the manure grub is dark in color and is very easily crushed, while the one generally found in the sod has a tough skin and is of a yellowish color; they feed altogether on roots and if taken into the rose bench are pretty certain to cause havoc among the roses. I have seen beautiful houses of roses practically ruined with this pest. The other species feeds chiefly on the manure, but should he happen to strike a rose in his travels he is liable to eat off the roots and go on his way. It is seldom practicable to discard the compost because of the presence of manure grubs in it, in fact it is sometimes impossible to get cow manure free from them. By carefully turning the compost and crushing all in sight, and repeating the turning and picking after it is in the house, it is possible to get rid of most of them. A good sprinkling of air slacked lime on the soil, or one or two waterings with lime water will generally destroy them while they are very small.

ROBT. SIMPSON.

Carrying Over Bride and Bridesmaid.

N. T. F. C., Canada, has a house of Bride and Bridesmaid roses they would like to carry over for another year; plants are small comparatively, and are giving fine bloom at present. If the risk is not too great they would like to grow them right along without any rest whatever. Replying to same I would say that as a rule I do not advocate the carrying of plants over to the second year, I have seen so many failures in doing so, that there appears to be too much risk attending it. With good fresh soil and fine thrifty young stock, there is every reason to expect good success provided proper care is given; not so with carried over plants. I have known one or two growers, however, who have kept in a large part of their stock for two or more years and have almost invariably been successful in doing so. Plants that have bloomed through the winter and all summer without having any rest, are very liable to stand still during the early winter and prove very unsatisfactory; for that reason it has been found best to gradually dry them off, compel them to take at least a partial rest for a period of from four to six weeks during the summer, then thin out, shorten back, mulch and start up. This method of course renders it impossible to cut any flowers during say three months.

Another plan and a very good one if carefully carried out is to lift the plants after cutting away all soft immature growths, retaining a good ball of earth and as much root as possible, and plant immediately into fresh soil. It is a good plan to empty part of a bench, refill with soil, then lift enough to plant the space prepared, and repeat until the whole house is transplanted. Any plants showing disease or lack of vigor must be discarded; they should also be allowed more bench room the second year. Plants lifted carefully, shaded with clay water on the glass for a few days, syringed frequently and kept rather close will not suffer very much and will be in bloom again in a very short time. Perhaps in this case if flowers in the summer are a consideration lifting and transplanting would be the most satisfactory method. The continuous growing method in the

same soil, as suggested, I could not endorse.

ROBT. SIMPSON.

Hybrid Roses.

BY MR. GEO. KLEIN.

[Read before the Chicago Florist Club June 11.]

Hybrid roses are no more profitable for florists; the American Beauty and the Meteor have done away with most all of the forcing of the hybrids. We now grow but very few hybrids for flowers, only for nursery trade. The price ought to range from \$1.50 to \$4 per dozen to be profitable, but these prices are generally not to be had now.

Propagation: They may be propagated in a great many ways, but to propagate them on a large scale I think the best way is to set out Manetti roses in the field two and one-half feet to three feet apart, and 8 inches in the row, and then bud or graft them there. In this way there is but very little handling, and they grow with the least care of any way that I know.

Green cuttings may be propagated in the greenhouse the same as tea roses, and also in the summer in the hotbeds. The hotbed propagation I shall explain as near as possible, as this manner of propagating does not seem to be practiced very much.

We dig out a hotbed about two and a half feet deep, and board up on both sides, making the south side of the hotbed about six inches higher than the north side, and then we put about eighteen inches of fresh horse manure in and tramp it down solid so that the manure begins to heat. On the top of the manure we put six inches of sand, moisten the same, and pack down solid, then we at once place the hotbed sashes over them, so that the heat and moisture will not escape too much. We then proceed to make a frame over the same with common sheeting cloth, which we slant toward the south. This shading ought to be made high enough so that you may work under the same comfortably, and so that no sun may shine on the hotbed except through the sheeting; then we are ready to put in cuttings (if the hotbed windows are clean; if not they must be washed perfectly clean in order to give plenty of light). Cuttings are inserted the same as in the greenhouse. We air them once a day for fifteen minutes, and sprinkle them about once a day, and this we do between ten and eleven o'clock. In this manner they will root in 25 to 30 days, and sometimes require a great deal less time than that. When rooted pot and treat the same as tea roses.

Another way of propagating is to take Manetti roots and root-graft them, in the same way as we root-graft apple trees; this we generally do in February and March. We treat them the same as apple root grafts. These are generally taken from the cellar about April 15, planted in the field and grown two years, by that time making a very large plant.

For forcing the kinds are limited; those that we have most generally used were the Jack, Mrs. Jao. Laing, Magna Charta, Ulrich Brunner, Mme. Gabriel Luizet, Mabel Morrison and Baroness Rothschild. Forcing the roses has been mentioned so many times through our trade papers that I hardly deem it necessary to explain it here. We have grown them in solid beds, benches, pots and shallow boxes. I think that the most profitable way to grow them is in pots during the summer and placed in benches whenever wanted for forcing, but to go into all the details I think I would be taking up too much of your time here.



REMOUNT POT ROSES IN BLOOM FOR THE EASTER TRADE AT THE ESTABLISHMENT OF FREUNDLICH, JR.

NOTES FROM ST. PETERSBURG.

St. Petersburg Notes.

We present in this issue several engravings from photos sent us by Mr. Gebhardt, the titles of which are sufficiently explanatory.

We have now received a note from Mr. Gebhardt, dated May 24, announcing his arrival in Moscow, and stating that he will soon send us some notes and photographs from that city.

The Air and Plant Life.

[We give below some interesting extracts from a paper upon Air and Life, by Henry de Varigny, which originally appeared in the *Revue des Deux Mondes* and were reprinted into the report of the Smithsonian Institution for 1893. We have extracted merely the parts that seemed of interest from a horticultural standpoint.]

Although plants by their respiratory function are exhalers of carbonic acid, they absorb a much larger quantity of it for their nutrition. They absorb this gas and decompose it into its elements, carbon, which becomes part of their tissues, and oxygen, which they restore to the air. Plants are great producers of oxygen.

* * *

True, plants exhale oxygen through their function of respiration. With them also this function may vary in intensity. During germination a large quantity of oxygen is required and we thus understand why so many seeds cannot germinate under water where the supply of oxygen is insufficient, or in compact soils

that are not easily penetrated by air. One seed may demand one-hundredth of its weight in oxygen, another seed will thrive on one-thousandth, but all needs some. Plants also require oxygen during growth; they consume it in large quantities when blooming, at which time chemical operations are so rapid and so intense as to give rise to quite a perceptible production of heat. At every instant in their lives they consume oxygen, and it is for this reason that large quantities are not kept in our dwellings, especially at night, when they produce carbonic acid, oxygen being exhaled only by day. Even when apparently dead, plants still breathe; their separated parts—blossoms, leaves, fruits—inclosed in a vase filled with air, consume oxygen and produce carbonic acid. If placed in a medium devoid of oxygen, death speedily follows.

* * *

Oxygen, the vital and pre-eminently vivifying gas, is also a virulent poison, not only for animals but for plants; for cells as well as for the entire organism. If the tension of the oxygen of the air be raised to a certain degree, or, what amounts to the same thing, if its volume be increased to a certain proportion, that air becomes at once a death-dealing agent. This can be demonstrated in two ways, either by subjecting the animal or plant to an abnormal atmospheric pressure or by placing it in air in which the proportion of oxygen has been artificially in-

creased. In both instances the same phenomena takes place and death soon supervenes. The cause of this is not well known as regards plants, but Paul Bert has shown that animals die in an atmosphere overcharged with oxygen as soon as their blood contains one-third more than the normal proportion of oxygen.

* * *

This poisonous property of excessive oxygen is one of the most curious facts that recent years have brought to our notice, and it is so clear, so marked, that it can be no longer open to doubt.

* * *

Let us take this well-established fact for a starting point: Nitrogenous food is indispensable to maintain life in beings of the higher orders. How can plants that directly or indirectly provide the nutriment of those beings, lay up a supply of nitrogen? The natural answer is, they take it from the atmosphere. But how? That question is one that engrossed the earnest attention of chemists and agriculturists, and in France, notably, Bous-singault, Berthelot, Deherain, and Geo. Ville have devoted considerable time to its study. They ascertained that certain plants obtained nitrogen either in the form of nitrates produced by combination of the nitric acid of the air with substances in the soil, or in the form of ammoniacal vapors. But M. Berthelot several years ago showed that there was another factor in the problem, that the soil doubtless contains microbes endowed with the power of so treating the nitrogen of air that it can be assimilated by plants. This theory has been fully confirmed by two German scientists, Messrs. Hellriegel and Wilfarth, whose most valuable investigations have been recently published. They discovered that certain plants, and especially leguminous ones, possess the property of thriving in soil poor in nitrates, and of taking the requisite quantity of nitrogen from the air by means of special microbes that live on their roots. If the microbes are destroyed, the growth of the plant will be stunted, if they are aided in reaching the roots by means of sprinkling with water in which earth has been kept for a few hours, the plant will at once prosper. Better still, if two leguminous plants are put in sterilized soil, and if, as was done by M. Breal of the Museum, a small quantity of the liquid, charged with microbes that fills the nodes of any thriving leguminous plant, be injected into the root of one of the two plants, it flourishes at once, while the other that was not inoculated remains stunted. There is no controverting this demonstration. The microbes on the roots of leguminous plants are agents through which plants assimilate nitrogen. A new study is open to agriculturists and there is no doubt that other facts of the same purport will be discovered in this unsuspected field of investigation. In our present discussion we need only know that atmospheric nitrogen is retained by plants, and, as we know that nitrogenous food is necessary to higher beings, and that the supply of such food can be invariably traced back to plants, we may conclude that the nitrogen of air is an indispensable agent in animal as well as vegetable life. Though an inert, and at first glance useless gas, it nevertheless performs an essential function in nutrition of all beings. Our legitimate conclusion therefore is that without nitrogen there can be no food, no plants, no life. It is proper to add that plants derive nitrogen not exclusively from air, for nitrates and ammonia also supply some, but these compounds are themselves

drawn from atmospheric nitrogen and our proposition remains true.

* * *

All animals, whether directly or indirectly, feed on plants, and plants take from the soil the greatest part of their mineral elements. Nitrogen and oxygen they take from the atmosphere, but whence do they draw the carbon that is so abundant in their tissues? Two sources of supply are known. Carbonic acid exists in the ground in the shape of carbonates formed by its combination with various substances, and in humus or surface soil composed chiefly of fragments of vegetation dead and decomposed. But inasmuch as humus was not available for the first plants, its carbon cannot be taken into account. The carbonates in the ground seem therefore in accordance with the opinion of Mathieu de Dombasle and a number of agriculturists and chemists who followed him, to be the only purveyors of carbon necessary to plants. Still the experiments of Sprengle, of Sausure and of others, have shown that carbonates were credited with more importance than they really possess, and at a more recent date it has been proved by Liebig that plants thrive well in a soil destitute of carbonates. But whence do they derive their carbon? We now know that they take it from the atmosphere. They possess the property of decomposing the carbonic acid of the air and setting its elements free, releasing its oxygen and retaining the carbon in their tissues. The 41,000,000 hectares of cultivated land in France absorb at least sixty millions of tons of carbon each year. There are, however, two conditions without which this important operation cannot be accomplished; the plants must be supplied with chlorophyll, the green matter which imparts color to the leaves; there must also be solar light, and the temperature must not be too low. As a matter of fact, chlorophyll can only decompose carbonic acid in the light and under certain conditions of temperature; it ceases to operate in cold weather or in darkness, and when it is deficient, when there is a lack of leaves, the plant droops and dies of starvation. For it is a point worthy of our careful notice that the function of chlorophyll is one of nutrition, decidedly distinct from that of respiration, by the operation of which plants, after the manner of animals, absorb oxygen and throw off carbonic acid. These two functions are not equally active, the former being much more so than the latter, although it only operates by day. If it were not so and if the two functions were exactly balanced, it would be impossible for the plant to grow, as it would lose through the one what it gained through the other. It is then chiefly by the medium of the leaves, and in a less degree by the roots, that the carbonic acid of the atmosphere is absorbed, and in any event, that gas must pass through the leaves, the green parts fed with chlorophyll, in order to be utilized by the plant.

* * *

Plants add but little to the supply of moisture in the air if it already abounds; but in dry air they emit enormous quantities. It has been possible to estimate, for instance, that a grove of 500 full-grown, healthy trees emits nearly 4,000 tons of moisture in twelve hours of daylight. Vegetal transpiration is less by night and barely equals one fifth of the evaporation by day.

Cutting Bed Fungus.

In the AMERICAN FLORIST of June 6, page 1200, a case of disease is diagnosed

as fungus of the cutting bench. I doubt very much if it is fungi. Nearly every spring and fall this question appears in floricultural papers. I believe in most cases deep planting is the cause. Carnations root only at the very point of the cutting, never along the stem, hence shallow planting would be natural for such a class of plants. A ficus roots along the stem; you can therefore plant it four feet deep and no trouble will result.

Some years ago I had a lot of carnations unsold late in the fall; they were heeled in a frame and covered from frost. When they were lifted to plant I found many of the stems rotting and discolored from being planted too deep. Another case came to my notice a year ago. I was visiting a florist; he took me to see his carnations, as they were all dying off; he had asked every florist who came to see him what was the cause. There were as many different answers as visitors. Our friend was not satisfied; he put me into the question box. I felt now or never, my prestige was at stake if I did not give a correct answer. I said from appearance I would say too deep planting. My friend gave a long knowing laugh. I thought I had got the butt end of a joke. He said "You are the only man that has given a correct answer. After planting the carnations I thought I would be real good to them and I took the soil from the violet house and put around them." He removed the extra soil and the trouble ceased, showing plainly that was the cause.

A. GILCHRIST.



Chrysanthemum Notes.

After the plants are set in the benches give them a good watering. By this we mean to wet the soil through to the bottom of the benches, and then until the plants have obtained a good hold in the new soil water sparingly, just wetting dry spots. Syringe the plants every pleasant morning, and keep the wood soft and growing.

Many of the growers who raise large quantities of a variety select a few strong plants from those that they are planting out and set them out in the open ground for stock. These they allow to grow as they will during the summer, keeping them headed in a little and lift in the fall, storing them in some pit or cold frame, where they will be safe from freezing until wanted in midwinter. They claim that the plant will give a very much larger quantity of cuttings, and that these will produce a much stronger plant. We do not vouch for this from experience, but upon the word of some of the very successful growers. But one thing is sure, it enables the grower to clean out his benches immediately after the flowers are cut off, there being no time taken in selecting and setting out stock plants.

Should any of the plants get broken off in setting or accidentally after they are set it is better to lift them and set them on the edge of the bench or put in a new plant. The plants around will have made quite a growth before the eyes on

the injured plant get broken out, and when they begin to make their strong growth a few weeks hence they will soon smother the more backward plant.

ELIJAH A. WOOD.



Cattleya Gaskelliana Alba.

At Rochester, N. Y., one of the finest specimens of this superb and chaste orchid is now flowering in the Kimball collection. The plant carries 33 snow white blossoms remarkable for their size, purity and substance. It has been grown most successfully in a glazed pan and resembles a giant bouquet. Crowds of visitors admire it daily. This is one of the easiest cattleyas grown, and thrives well suspended or on the stage. The smallest plants increase much quicker than many other cattleyas, and it blooms as freely as the old *Cattleya labiata*.

A. DIMMOCK.

Herbaceous Plant Notes.

Oenotheras must be mentioned among the best and most ornamental of our hardy plants; they produce their large and brilliant flowers in such profusion all through the summer months. Many of them are fragrant, and they may be used in many places where other plants would not find nourishment enough to sustain life. They grow and flower well in a rather dry border fully exposed to the sun, or they may be planted along the edge of a shrubbery or else in beds by themselves, wherever planted they make a most beautiful show from the latter part of May until September, and will do the same year after year without replanting but may want a thinning out in spring, for they grow and spread considerably when left alone. With few exceptions, most of the perennial species do not attain a greater height than two feet, and usually are compact and dense in growth, sending out numerous stems from a creeping rootstock, and flower profusely from the axils of the leaves as the stem elongates. Yellow in lighter or darker shades is predominating in the family, although white, changing to red or pink as the flowers grow older, is not uncommon. Where very large beds are to be planted with them, it would probably be advisable to introduce some of the taller growing biennial varieties, such as *O. biennis* Lamarckiana or grandiflora for the center or the background of the bed, and for this purpose a few of these should be grown every year to take the place of the old decayed plants. Mixed with veronicas, Delphinium sinensis or Aster bessarabicus a patch in the border looks exceedingly well. Equally good effects may be produced by planting these blue or purple flowers close by or adjoining the yellow *œnothéras*. One of the best yellow flowering varieties is *O. glauca* Fraserii, it is continuously in bloom from the beginning of June to October, and there is hardly another variety which could be compared with it in this respect. The flowers are of a bright yellow, rather large in size, and if some of the species surpass it perhaps in the size of the flower or in a deeper color, the freedom of producing the flowers for such a long time in the hottest months of the year



LILACS IN BLOOM FOR EASTER AT H. F. EILERS'.

ST. PETERSBURG NOTES.

cannot be equalled by the other varieties. It does not grow quite so tall as the ordinary *C. glauca*, and seldom attains a height of more than 12 to 15 inches, while the common one will grow two feet high. *C. fruticosa* will grow from 2½ to 3 feet high, and produces its large pale yellow flowers from June to September. The stems are stout and erect, branching from the middle up to the apex, thus fitting the plant admirably for planting among those of lower and less robust growth.

Of the white flowering species none perhaps is better adapted for beds than *C. speciosa*; it blooms very early in May and lasts well into September. The flowers are very large, 3 to 4 inches across, and very numerous. A bed of it alone or when mixed with pink *saponaria*, *Geum atrosanguineum* or any other plant as fancy may dictate will invariably give satisfaction. It grows a little tall, 2½ feet, but stands up well, as the stems are rather stiff and woody. When the flowers grow older they will turn a pretty pinkish color, and the different shaded blooms on the same stems look very pretty and are a curiosity to most people.

Campanula media is coming on fine, and flowers splendidly this season, the various shades of blue or pink and the whites also are exceedingly handsome now, but they should not be planted without preparation for a succession, because after flowering they become rather unsightly objects in the border if not succeeded by a later blooming robust growing plant of some kind. A few fall flowering asters, *coreopsis*, *heliopsis*, *anthemis* or other things should be planted with them, or if this mixing is objected to, young plants of the campanulas may be planted annually between the older ones, and when the latter are past their best they should be removed entirely to make room for the younger plants, which will in a short time occupy and cover the

ground, leaving no unsightly bare spaces. *Lychnis vespertina alba plena* would make a fine bed all summer either alone or planted in with the taller campanulas, veronicas, delphiniums, aconitums, digitalis, etc. Being a perpetual bloomer it is a decidedly fine and excellent plant for a permanent bed, requiring very little care or attention. A rather rich ground and a full exposure to sun and air suits them best. A large patch of the *Gaillardia grandiflora* looks gay and bright, and will continue in this brightness until hard frosts cut them down in November. As they grow freely and send up a mass of leaves and flower stems, completely hiding the ground under them, there is no need of planting any other flowering or ground carpeting plant between the *gaillardias*, but a few clumps of *boltonias* or fall flowering asters look well among them, and heighten the effect in late fall, when other flowers are scarce.

Astragalus Hypoglottis and *A. H. albus* are in flower for some weeks; they are very free flowering in June and July and cover the ground completely, forming a dense mass of light green only about three inches high. They are good for the edging of a bed or in patches along the front of the borders, with a few plants of *pentstemon*, *adenophora* or other sparsely leaved plants stuck in a good way apart. Such low and compact plants are very useful for covering bare spots in the borders and should be introduced wherever possible. J. B. KELLER.

Rochester, N. Y.

American Association of Nurserymen.

The twenty-first annual meeting of this society was held at Chicago June 10-11, with a large attendance, and much interest was manifested at its sessions. President Silas Wilson of Atlantic, Iowa, opened the first session with an address, in which he touched specially on the ques-

tion of transportation. While the prices realized for nursery stock have been steadily declining for several years, railway tariffs show an increase, and there is also a tendency to lower the weight allowed in carload lots. Mr. Wilson urged the association to take action upon this matter, and as a result of his recommendations a standing committee of five, exclusive of the president of the society (who is a member ex-officio) was appointed, this committee being empowered to take such action as they deem advisable, and to devote their best efforts to the representation of nursery interests to the railways. An appropriation was made from the society's treasury for the purpose of meeting any necessary expenses. Mr. Wilson also touched on the other aims of the society, which, as he said, is not so much a horticultural school as an occasion where nurserymen may meet to cultivate each other's acquaintance and enjoy social pleasures with men of like interests. The reports of secretary and treasurer showed the society to be in a flourishing condition financially.

The election of officers confirmed all the existing officers for another year, no changes being made. After a discussion of various places for the next meeting St. Louis was finally decided upon.

An invitation was received from the West Michigan Horticultural Society, asking the association to travel by boat across the lake to St. Joseph, to be the guests of the society, and to view the fruit-growing places of that section. A number of the members availed themselves of this invitation. An invitation was also received from the Chicago Florists' club for any members interested in hardy roses to visit their club meeting Thursday night, which was devoted to this flower.

The provisional program was varied by a number of interesting discussions. An address by Prof. L. H. Bailey was listened to with marked attention, and received with much applause. When that silver-haired veteran, Robert Douglas, rose to utter a few words he was greeted with a spontaneous ovation, but circumstances prevented him from reading his expected essay on hardness of trees and tree seeds. Prof. Van Deman, Mr. Albaugh, Mr. Jenkins, and Mr. Campbell, of Ohio, and others were on the provisional program, and the impromptu discussions were listened to with deep interest.

There was an exhibition of seedling evergreens, tree balers and other appliances, and lithographs, in connection with the meeting, which came to an end Thursday.

Cleveland Parks.

The evolution of a large city presents many interesting phenomena to the attention of a careful observer, among others the growth and development of a park system. In its earlier stages the inhabitants of a town find sufficient opportunity to enjoy the pleasures of communion with nature without the special resorts for that purpose that a larger municipality finds its good policy to provide for its citizens. Sooner or later, however, the necessity is felt and must be satisfied. In Cleveland the need for many years was not apparent on account of certain local peculiarities that gained for it its widely known appellation—the "Forest City." There was another local characteristic that tended to retard the movement toward better park facilities. This was the straggling character of city growth, and this arose largely from

generosity in the size of building lots, the low price of the same and the consequent ability of many to own their own homes. People were not bived up, pent in between four walls, to the extent that prevailed elsewhere, and the need of "breathing spots" was not of so urgent a character. These conditions have been vastly altered by the rapid growth of the city within the last ten years, and during the last five years or so there has been a great change in the city parks. Prior to that time there was practically nothing of the sort. Now there are upwards of eleven hundred acres of park property belonging to the city.

To properly understand the scope and character of the work done, and yet to do, a few broad facts may be stated here. Cleveland lies upon a deep indentation in the shore of Lake Erie, and upon a level plateau some fifty or seventy-five feet above the level of the lake. The Cuyahoga river—as malodorous as the Chicago river at its best, or worst—divides the city in two. From the valley of the Cuyahoga the ground rises on each side to the plateau aforesaid. At intervals in this plateau the natural waterfall of the region finds its way to the lake by means of creeks varying in size, and that is the course of ages have cut small ravines leading to the lake. Following one of the ravines that lies about four miles east from the center of the city, the better part of the present park system is to be found, and the nucleus of that portion lies here in the two portions known respectively as Wade and Gordon Parks.

Many years ago W. J. Gordon, a wealthy resident of Cleveland, bought a large tract of land lying along the lake shore and intersected by Doan Brook. Here he took up his residence and for many years lived and improved the property according to his own ideas of what a private park should be. And it must be said that his ideas were excellent, while in their carrying out within time, money nor pains were spared. The deep cut valley, with its meandering brook coursing through it, offered splendid opportunities for accentuating its beautiful features. All through the valley roads were made, vistas cleared among the forest trees, plantings made where nature had denied man the beauty that he craved, shrubs and trees not indigenous to the locality were put in, while away up on the level plain overlooking the lake was laid out in great tracts of level green sward that afforded a pleasant variety to the arboreal beauties of the valley.

Along the beach a shore drive was constructed and a seawall built. Thus for many years the work went on. An idea of the amount of patient labor that was bestowed on the grounds may be gathered from the fact that the country for miles around was scoured in search of these granite boulders that one often sees, the relics of a bygone glacial epoch. There are not many transportable ones now to be found within a distance of several miles from Gordon Park; big ones and little ones, all alike if at all movable, have found in the park a permanent abiding place. They jut up out of the hills, lie half buried in the valleys, are built into an artificial cave, and lie by the thousand out of sight in Lake Erie, where they help form a breakwater for the shore drive. There is a tale still current of a huge boulder that broke all the machinery, broke down the wagons and cost much money in lost time—but it reached the park finally. W. J. Gordon is dead, but his park, but little altered from his ideas, freely given to the city,

remains a witness to his good taste and liberality.

There are about one hundred and twenty-five acres in this part of the park system. Following the Doan Brook valley from Gordon Park to Wade Park, the city of Cleveland is the owner of a strip of land that includes the entire width of the valley for a length of about one and one-half miles. On the level ground above the ravine on the eastern side, a magnificent drive has been laid out, generous in width, and with ample provision for pedestrians. The plan also contemplates accommodations for bicyclers. While this boulevard is at present the only connection between the two parks, the completed work will find other drives on the opposite side of the ravine



H. F. EILERS A LEADING FLORIST OF ST. PETERSBURG.

and down in the lower lying levels as well. Wade Park, the present southern terminus of the boulevard, is a gift from Mr. J. H. Wade to the city. It lies directly upon Euclid avenue and includes within its seventy-five acres a considerable part of Doan Brook valley and a generous share of level, high-lying and well-wooded park land. The nucleus of a future zoological garden is also located here. At present it is not of any great extent, but it is being added to from time to time, and when other and more pressing matters connected with the park system are satisfactorily completed this matter will probably receive attention.

South of Euclid avenue and extending parallel with it for many miles easterly runs what is locally known as the "Ridge." This is nothing more nor less than the ancient shore of Lake Erie in prehistoric geological times. It lies high above the plain upon which the city itself is built, and to the east lie many beautiful summer residences of the Forest City's wealthy citizens, the home of John D. Rockefeller being among the number. The park property extends up into this ridge, always following Doan Brook until it reaches a point about six miles from the lake. This ridge property contains about five hundred acres of land, the very finest for park purposes, the most of the natural scenery being much wilder and more rugged than the portion already thor-

oughly improved and lying nearer the lake; but every foot of it is susceptible of conversion into a park property that can hardly be equalled in other cities, and certainly not excelled, all things being taken into consideration. Including Gordon and Wade Parks, Doan Brookway, Newburgh Park, Shaker Heights Park and Ambler Parkway, the entire acreage of this part of Cleveland's park system approximates nine hundred acres. In this are included two fine natural lakes containing about fifty acres. In the western part of the city there are in all about one hundred and seventy-five acres of park property, mostly divided between two parcels of land known as Brooklyn Park and Edgewater Park. The first named has received as yet but little attention. Edgewater Park, located upon the lake shore within about two miles of the center of the city, contains nearly ninety acres and is now being improved according to plans. It will probably be formally dedicated during the centennial celebrations this summer.

Aside from these already mentioned there are several small parks that serve the wants of their immediate neighborhood, but otherwise are of no interest. There is at present little bedding done in any of the parks, but the lack in that respect is not seriously noticed, owing to the very great diversity of character in the property as it stands. It is very likely, however, that when the pressure of work connected with the task of first improvement over so wide a territory is completed the park board will undertake something of the kind; but whether this is done or not the fact will still remain, that Cleveland has one of the finest opportunities for park lands that has ever been within the control of a municipality of its size in the United States, and that the opportunity will be properly improved is the earnest belief of citizens of the "Forest City." A.

Washington.

Decoration Day was all that could be desired so far as the weather was concerned. Thousands of our citizens visited the National Cemeteries about Washington. Arlington never looked more beautiful, and never had such a number of visitors on a similar day.

The flowers furnished from the Public Grounds and Botanic Gardens this season was very limited as compared with former years. The out door flowers, such as philadelphus, deutzias, iris, roses, spiræas, and pæonies were nearly all passed, and as those are the things usually depended upon for decoration, the snow storm of last Thursday destroyed many flowers which would have been used in the decorations. The scarcity of elaborate set pieces usually placed upon the officers' graves by comrades and friends was very noticeable. Many daisies and wild flowers were used. Some of the graves were decorated by a sunburst of daisies (which completely covered them) and a few pieces of asparagus with a few roses furnished the center.

Upon the grave of Admiral Porter was placed a fine flat bouquet of roses and carnations with a center of cattleyas. At the head was an anchor of white cape flowers and a bunch of lilies at the foot. General Sheridan's grave, as usual, was handsomely decorated. At the head was a large swell wreath of ivy leaves, with a large bunch of pale pink carnations at one side. At the foot was a smaller wreath with a bunch of callas. The grave was strewn with roses, lilies and



MR. H. F. EILERS' STORE ON THE NEVSKY PROSPECT
NOTES FROM ST. PETERSBURG

carnations. In the right corner of the lot was placed a cavalry guidon about 5 feet high composed of red immortelles and white cape flowers with a star of red immortelles resting upon it. The staff was wrapped with yellow chenille, below this was a scroll of white cape flowers bearing the words "Loyal Legion" in purple chenille. Opposite was a G. A. R. badge, with eagle and cross, cannons were of yellow immortelles, while the star was of yellow. In a scroll of white cape flowers at top were the words, "Phil Sheridan Post, No. 14," of purple immortelles—while on the bottom scroll were the letters G. A. R. in the same color.

The tomb of Genl. W. Q. Gresham, late secretary of state, was covered with philadelphus flowers; on the center rested a handsome wreath with a card "From the President." President Cleveland had sent it out early in the morning with a request that it be placed upon the grave of his late friend. The wreath was about 4 feet in diameter, composed of roses, carnations, paeonies, swainsona and yellow coreopsis on a base of asparagus. At the head was a large wreath of adiantum with pink and white roses, double deutzia and pansies from the family.

On Surgeon-Genl. Baxter's grave was placed a large wreath of ivy leaves with a bunch of pale pink sweet peas filling the center; the grave being covered with magnolia flowers and wild daisies. Col. and Asst. Paymaster Rucker's grave was marked by a large swell wreath of ivy leaves and a bunch of white roses. At the head was a large bunch of paeonies and

at the foot a bunch of Golden Gate roses.

The tomb of the unknown, where rests the remains of two thousand eleven hundred and over of our heroes, always receives particular attention from the ladies in charge of the decorations. Mrs. Cleveland has never failed to remember this tomb on Memorial day since she first came to the White House. She usually sends a large wreath, this year it was an exact duplicate of the one sent by the President for the Gresham grave. The large tomb which is of gray granite is about 15 feet high, 8 feet long and 5 wide, was covered with a drapery of American flags, about half-way down was a festooning of laurel leaves and flowers. Around the corner posts was a roping of laurel leaves and daisies, while the enclosure was strewn with choice flowers of every kind. On the face of the tomb was placed the wreath from Mrs. Cleveland. On the four upper corners were wreaths of laurel, while on the four lower corners wreaths of ivy leaves, one having pink flowers, one white, one red, and one yellow. Resting against the lower south-west corner was a large wreath of cape flowers, with two bunches of thistle balls, in red, white and blue immortelles were the words "From the ladies of the G. A. R." Against the south end rested a large wreath of ivy leaves with red and white carnations.

On the grave of Inspector Genl. Henry M. Heyl rested a large wreath of white roses on a stand 2 feet high, a cross of white roses and a crown of white carnations edged with asparagus,

At the foot of the grave of Chief Engineer N. B. Clark was a vase 4 foot high made entirely of pink and white carnations the base and arms of small ivy leaves,—the vase was filled with kalmia flowers. The upper half of the bowl of the vase was of white and the lower half of pink carnations. Many of the other graves were tastily decorated by friends, but mostly with wild flowers. A great number of potted plants in flower were used this year, a good number of palms were also used, they being plunged.

Trade has been very quiet, with the exception of a few weddings there is simply nothing doing and our florists have plenty of time to look after the coming winter stock of flowering plants.

The plant trade, which has just closed, has been only fair, some saying it was poor, while others claim it was fairly up to the average. At any rate it was not up to last year. Stock was plentiful and in fine condition, though the prices were much lower. Flowers are plentiful and fairly good for the season. REYNOLDS.

Buffalo.

We are beginning to feel a little less in a hurry than ten days ago, for the bulk of the spring trade is over, and all will concede that the demand for plants to adorn the homes both of the living and the dead has exceeded that of any former season. In some cities you hear it said that people are getting tired of geraniums. In our rural and uncultivated hamlet the geranium is still king as the popular plant for flower beds, vases and what has become this year a perfect fad, a 12 or 15-inch jar or ordinary flower pot filled with a geranium of one color. They are usually stood on the front steps of the house, and look all right. When people deal with the local florist in any line they usually get full value for their money, but when they listen to the tree peddler or lightning rod man there is in about two years weeping and grinding of teeth.

It is little use to tell the state of the flower market; there is plenty for everybody. Decoration was fine and warm, and about three hundred thousand of our people knew what the day meant, and honored the veterans by going to baseball, horse and bicycle races. The other one hundred thousand had all they could do to see that the majority enjoyed themselves.

There were a couple of failures in our business within thirty days, but they were of insufficient magnitude to disturb the quotations on Wall street. Mr. Elbers, who rented the old Bailey place, found that the houses were not adapted to the style of plants he aspired to grow, and he vacated. The old place deserves a mention more than common, for it was there that W. S. first began his commercial life, paying Mr. Bailey one thousand dollars rent for eleven months, not years, and the glass was only three thousand five hundred feet, but that was in the days when we grew plants, and there was not a herd of young aspirants all seeking business on the basis of underselling their neighbors. The other misfortune was the selling out of Mr. Fred Elbers of Banck avenue, a most worthy young man. It appears that he rented the store and one day the floor fell out, or rather down, and he refused to pay rent for the unexpired term of his lease. A lawsuit began, and Mr. E. having the characteristic John Bull fight in him, let them go ahead, but a big lawsuit is coming off within a few weeks, and we all

hope Fred will get what all deserve and an honest man only desires, justice.

Since the election of Mr. E. I. Mepsted to the presidency of our club it has been difficult to get together a quorum, but last night we had a rousing meeting. Mr. Mepsted makes an ideal presiding officer. This was shown early in the evening, for when there was a count made of members present, and it was found that there were 19 present, Dennis O'Connell discovered that Johnnie Milley's bull pup had been counted. The chair declared that anybody or anything who would attend a meeting of a F. C. during the heated term deserved recognition. When it came to good of the society Mr. Mepsted made a 15 minute talk on the general business of the city in our line. He strongly advised all young men as long as they had good wages and steady employment to stick to their jobs. A multiplicity of small establishments and cutting in prices was in his opinion deleterious to the trade, and had a demoralizing effect on everybody. W. A. Adams made some amusing remarks about the use of the bicycle in the business, saying that he had saved at least ten dollars a month in messenger boys by the use of the wheel. Wm. Milley spoke of hanging shelves as a safety valve to overcrowded houses in spring, and while a great help in some establishments you had to be physically gifted to realize their value. S. A. Anderson said while the florist business could be considered one of the the most peaceful and least dangerous it was wise to have an insurance policy against accidents, and related that last winter a 200 pound damsel during a five step fell on the front part of his foot and he was unable to attend to business for 3 days, for which he drew fifty dollars. George Asmus spoke of the great advantage of having shades on a store. The early beginning of the sun's rays did not hurt, but in the latter part of the day it wilted everything. He also added that Buffalo ought to be in the national league and not in a small trumpety combination.

C. F. Christenson gave some sage advice about what to grow. Fuchsias, he said, were entirely gone out of popular favor, and he was going to spend the remainder of his virtuous days in growing maidenhair fern. D. B. Long with his usual sedate style added much to the pleasure of the evening by a most interesting discourse; the whole of his wise words boiled down was that to run a business successfully was to "attend to business" and get no fads in your head. Wm. Belsey contributed what he knew about keeping mildew off roses, and everybody knows how successful he has been. He did not attribute his success so much to careful airing as to careful watering. W. B. is a great man for water and believes that where proper drainage is supplied the majority of us keep our rose beds too dry. There were several other interesting talks worth recording, but I will have to reserve them for your next.

W. S.

New York.

Business is in a condition only to be expected with a most remarkable absence of June weddings and other festivals calling for floral decorations, a general exodus to Europe, and a superabundance of all kinds of stock. Never before has there been such an abundance of outdoor flowers at this season. The exceptionally warm weather has advanced the season by two weeks.

Mr. and Mrs. J. H. Troy sailed by S. S. Aurania June 9 on a visit to the old

country; many beautiful floral designs adorned their state room and quite a large delegation of florists was on hand to wish the ever genial Troy and wife bon voyage.

Harry Bunyard and Dan MacRorie have returned after a long absence.

The monthly meeting of the Florists' Club was held on Monday evening, though the numbers were not large still it was a very representative and enthusiastic meeting, the greatest amount of good fellowship and general good feeling prevailed. There seemed to be an unexpressed regret that those present were not to meet again in a body until the September meeting. In the absence of the president the vice-president, Mr. Samuel Henshaw, presided. Mr. Henry Holbrook and Mr. J. A. Pettigrew were elected to membership. Much enthusiasm was shown in regard to the forthcoming rose show to be held in the Newsboys' Home in this city on June 20. All the members present signified their intention of assisting in every way possible towards making it a success and it was further adopted that one member of the club in each district or village be appointed a committee of one to work up such district in procuring exhibits and donations of plants and flowers for this show. Twenty thousand poor children will attend the exhibition and it is hoped the committee will be able to give each child a small plant and a few flowers. A committee was appointed to invite the mayor of the city to open the exhibition.

Quite a discussion was occasioned on the matter of a fall show, with the result that it was finally decided to hold one, and that the arrangements be left in the hands of the board of trustees, so New York will have a fall show, and a grand one at that.

The forthcoming convention of the S. A. F. was next discussed. It is expected that a very large delegation will go from this city and Messrs. O'Mara, May and Weathered were appointed a committee on transportation.

Mr. O'Mara as chairman of the essay committee, announced that Mr. Grove P. Rawson of Elmira would deliver a lecture before the club at the September meeting. Mr. Rawson may be assured that New York will "be there" to meet him.

W. A. Manda, South Orange, N. J., exhibited a most remarkable group of new roses, seedlings of Rosa Wichuraiana, in foliage and habit exactly like Wichuraiana, but the flowers of one are double white, another double pink, another shell pink and one single pink. They are all beautiful acquisitions, lovely colors and very fragrant. They created quite a sensation and the committee of awards was requested to visit Mr. Manda and report on these beautiful novelties.

JOHN YOUNG.

Boston.

The annual rhododendron show of the Massachusetts Horticultural Society was held Thursday and Friday, the 4th and 5th inst., and the hall was filled to overflowing with the products of the many well known gardeners of the beautiful places in the vicinity of Boston. There were large and magnificent displays of rhododendrons from James Comley, H. H. Hunnewell and Mrs. B. P. Cheney, the latter two not being entered for competition, and smaller displays from S. J. Trepass and John L. Gardner.

Mr. Comley was the most successful prize taker. His display filled the long center table, and very effectively grouped with the handsome trusses were vases of

vari-colored foliage. On one of the side tables the same exhibitor showed some beautiful orchids and a new hydrangea from Japan which was awarded the society's silver medal.

The exhibit of John L. Gardner, Wm. Thatcher, gardener, also contained some prize winners. In this display besides the rhododendrons were noticed some beautiful orchids, paeonies, iris and pyrethrums.

Azaleas mollis was shown by H. H. Hunnewell and Oakes Ames, Carl Blomberg, gardener. In the latter exhibit were also shown orchids, aquatics and native plants. Rea Bros. and the Reading Nursery Co. showed herbaceous plants, and beautifully grown pyrethrums were shown by Dr. C. G. Weld, Kenneth Finlayson, gardener, and C. H. Whitten. The wild flower premiums called out beautiful and rare exhibits from Mrs. P. D. Richards, the Misses Doran and Genevieve Doran.

An exhibit which demanded a great deal of attention was that of M. C. Walsh, gardener for Jos. S. Fay. This filled the right stairway to the upper hall, which was banked with the foliage and blooms of hardy trees and shrubs. Vases of flowers were shown by Mrs. A. D. Wood and Mrs. E. M. Gill, and W. H. Cowing made a large exhibit of iris and Oriental poppies.

The committee of the Gardeners' and Florists' Club, to whom was left the arrangement of the ladies' night, have decided upon June 29 at 8 o'clock as the date and hour, and they have arranged for an entertainment which should be very pleasant and enjoyable to all the members.

Mr. W. J. Stewart is enjoying a short vacation in the woods of Maine, accompanied by Mr. Alex. Burns of New York. They departed with a full line of fishing tackle, and all will be ready for good fish stories when they return with their faces well tanned and sun burned.

L. C. Bobbink of Rutherford, N. J., is in town this week, representing the Horticultural Company, Boskoop, Holland.

E. A. W.

Philadelphia.

Much needed rains have fallen the last day or two and all outside stock is doing nicely. The new crop of sweet peas will soon be here and when they come it is a sure sign of summer.

Business has been a trifle better the past week, in fact some of the boys, notably Graham, have had all they could do. There was the usual number of June weddings and a number of commencements which used up a lot of choice stock. With this extra demand, however, there has been a great plenty of flowers at very low prices. Three dollars a hundred is high now for the best teas. \$1.50 to \$2 per dozen is the best for Beauties. Carnations \$1 for select and there are still some fine Scotts, whites, and Daybreaks although the latter are a bit pale. Some good valley is seen from several growers and sells at from 3 to 4. There are plenty of sweet peas at 50 cents per hundred.

The bedding plant season is about over and there seems to be quite a lot of stock unsold. Either the demand for this class of plants is falling off or else it is on account of the competition, for the principal growers in this line seem to complain of the decreasing business with each recurring season; not only has the demand fallen off, but prices have declined to such a degree that there is scarcely any profit in the sales made. Eight dollars per hundred used to be rock bottom for all plants in 4-inch pots, in fact, one of the largest

gatherings of the local florists was of the growers, some years ago, to fix the price of this same size at \$10 per hundred. This did not last, however, and soon \$8 was by common consent the ruling figure. Now, however, but \$7 is asked and often sales are made at \$6. The smaller plants in 2½ and 3-inch pots are also sold very low; \$4 is high and much of it goes at \$3 and out of pots at \$2, and good coleus were offered in one instance at \$1.50 per hundred out of pots. Roses have not sold well, extra fine stock having to be considerably shaded in price to set it moving. We hope this state of affairs is not general over the country, but if so it might be a good idea to have it talked over at the coming convention and see if it is the fault of the trade or if the public taste is being turned in other directions.

There was quite an addition made to the stock of Beauties last fall and some predicted that there would be too many, but good roses of this variety have had a ready sale the past season and at generally good prices. Almost all those who make a specialty of this rose are now increasing their stock. Mr. Heacock is doubling his supply and Mr. Lonsdale is doing about the same, other growers are also planting largely and it would seem as if there ought to be enough to go around next season.

The semi-monthly shoot of the Gun Club last Wednesday afternoon resulted in another change of the medal, which now reposes peacefully on the manly breast of George Craig. It's Anderson's turn next.

The Pennock Co. of Wilmington are adding a palm house.

Chas. D. Ball and Lemuel Ball are both erecting large additions to their plants, which will be devoted entirely to palms and ferns. This branch of the business does not seem to be affected by hard times and is now enjoying a boom of growing proportions. K.

St. Louis.

Business in the cut flower line improved somewhat last week; several of the West End florists were very busy for weddings, and the down-town florists had lots of funeral work. Stock is not over-plentiful and prices a little stiff for this time of the year. This is the month for school graduates, but very little is expected by the florists, as flowers have been done away with and very few flowers are used now by them. Roses are looking better than they have been; good Brides and Kaisers are bringing \$4 to \$5, others \$2 to \$4. Carnations are small and not as good as they have been; they bring \$1 to \$1.50. Sweet peas are still plentiful and are selling well at 25 cents per hundred for colored and 35 cents for the white. Cornflowers bring 50 cents per 100.

C. Young & Sons Co. received a check for \$3,739.86 from Florists' Hail Association last week, and wish to return thanks to the company for their promptness in paying such a heavy loss. They had lived on their place for 20 years and never had a loss by hail before.

The following firms also wish to return thanks for promptness in paying their loss: Alex Waldbart, Robt. F. Tesson, Chas. Hotzborn, Felter & Brucker, Michel Plant & Bulb Co. and Jordan Floral Co. In paying the above firms the Hail Association paid a total of \$6,002.71.

The cemetery superintendents of the United States will hold their convention here in the fall.

Prof. Wm. Trelease of the Missouri Botanical Garden is on a visit to Bahama Islands, and will return in the fall.

Chairman Kunz of the picnic committee reports that the florists' picnic, owing to hailstorms and cyclones, has been indefinitely postponed.

Monday last south St. Louis was again visited by a heavy downpour of rain and a damaging fall of hail. Chas. Ritter's place, 5717 Michigan avenue, was riddled with hailstones, and every pane of glass was broken. No other report was made of any loss to florists.

C. C. Sanders is building two new houses 125x25 at his new place. Mr. Sanders will move from his old place this summer.

At the Bowling Club Monday night the boys who attended had a good time, and rolled three games. Charlie Kuehn was high man of the night, rolling 548; Emil Schray second with 543. Frank Fillmore made the highest single score of the night, 221. Kuehn was second with 218, and Emil Schray third, 210. Next Monday night we expect a full attendance, and a surprise is in store for those who come.

J. J. B.

OBITUARY.

JEAN PERNET.

This distinguished rosarian died at his home near Lyons, France, March 31, aged 64 years. M. Pernet introduced his first rose to cultivation in 1859, the variety being Mlle. Bonnaire. This was followed by a long list of worthy varieties, teas, hybrids and Noisettes. Among the best known are the favorite Baroness Rothschild, Merveille de Lyon, Caroline Kuster, Charles Rovolli, and Souvenir de Victor Hugo. M. Pernet's business will in future be carried on by his son, M. J. Pernet-Ducher.

Trees and Shrubs Used in the Public Grounds of Boston.

The following list of trees and shrubs used in the public grounds of Boston, prepared from data kindly supplied by Mr. Jackson Dawson, cannot fail to be of great value to planters in other sections of the country. The publication of such lists from various widely separated points was suggested to us by the valuable record sent us by Mr. Tavernier, Chief Engineer of the city of Paris, and which was published in the FLORIST. While the parks of this country are too young to enable us to present so complete a record as would be desirable, it is time that what data is available be gathered together in a form convenient for reference, and that will serve as the foundation for the more complete record that should be enjoyed by the horticulturists of the next generation. The average height at maturity, which is given in each case, will surely be of great assistance in avoiding errors as to the future effect of new plantings.

DECIDUOUS TREES.

FIRST HEIGHT.	HEIGHT IN FEET.
<i>Acer barbatum</i> (saccharinum)	60 to 70
" <i>dasy-carpum</i>	50 to 70
" <i>rubrum</i>	60 to 70
<i>Betula alba</i>	50 to 60
" <i>lenta</i>	50 to 75
" <i>lutea</i>	60 to 75
" <i>nigra</i>	50 to 75
" <i>papyrifera</i>	60 to 70
<i>Carya alba</i>	50 to 60
" <i>porcina</i>	50 to 60
" <i>sulcata</i>	50 to 60
" <i>tomentosa</i>	50 to 60
<i>Castanea vulgaris</i> var. <i>americana</i>	70 to 80
<i>Catalpa speciosa</i>	50 to 60
<i>Diospyros virginiana</i>	40 to 60
<i>Fagus ferruginea</i>	60 to 75
" <i>sylvatica</i>	60 to 80
<i>Fraxinus americana</i>	45 to 65
" <i>quadrangulata</i>	50 to 60
" <i>sambucifolia</i>	50 to 60
<i>Gleditsia triacanthos</i>	50 to 60
<i>Gymnocladus canadensis</i>	50 to 60
<i>Liriodendron tulipifera</i>	75 to 100
<i>Liquidambar styraciflua</i>	50 to 70

<i>Magnolia acuminata</i>	60 to 90
" <i>cordata</i>	60 to 75
<i>Platanus occidentalis</i>	75 to 80
<i>Populus alba</i> and varieties	80 to 90
" <i>balsamifera</i>	50 to 60
" <i>grandidentata</i>	60 to 70
" <i>heterophylla</i>	40 to 60
" <i>moniflora</i>	60 to 70
" <i>nigra</i>	50 to 60
" <i>tremuloides</i>	40 to 60
<i>Prunus serotina</i>	40 to 60
<i>Quercus alba</i>	60 to 75
" <i>bicolor</i>	60 to 70
" <i>coccinea</i>	60 to 70
" <i>imbricaria</i>	60 to 70
" <i>lyrata</i>	60 to 70
" <i>macrocarpa</i>	60 to 95
" <i>palustris</i>	70 to 80
" <i>Prinus</i>	50 to 60
" <i>robur</i> var. <i>pendunculata</i>	50 to 60
" <i>rubra</i>	60 to 70
" <i>tinctoria</i>	65 to 75
<i>Robinia Pseudacacia</i>	50 to 60
<i>Salix nigra</i>	15 to 55
<i>Tilia americana</i>	40 to 60
" <i>europaea</i>	60 to 90
" <i>heterophylla</i>	40 to 50
<i>Ulmus americana</i>	60 to 75
" <i>campestris</i>	60 to 70
" <i>montana</i>	50 to 60
" <i>racemosa</i>	50 to 60

SECOND HEIGHT.

<i>Acanthopanax ricinifolia</i>	30 to 40
<i>Acer platanoides</i>	30 to 40
" <i>Pseudo-platanus</i>	30 to 40
" <i>spicatum</i>	30 to 40
<i>Esculus flava</i>	30 to 45
" <i>glabra</i>	25 to 30
<i>Ailanthus glandulosus</i>	40 to 50
<i>Carpinus betulus</i>	30 to 40
" <i>caroliniana</i>	30 to 40
<i>Carya amara</i>	40 to 50
<i>Catalpa Catalpa</i> (bignonioides)	35 to 40
<i>Celtis occidentalis</i>	30 to 40
<i>Cladrastis tinctoria</i>	30 to 40
<i>Praxinus excelsior</i>	30 to 40
" <i>mandshurica</i>	30 to 40
" <i>potanophylla</i>	30 to 40
" <i>pubescens</i>	30 to 40
" <i>viridis</i>	40 to 50
<i>Juglans cinerea</i>	40 to 50
" <i>nigra</i>	40 to 50
" <i>Sieboldiana</i>	25 to 35
<i>Magnolia Fraseri</i>	25 to 40
" <i>macrophylla</i>	25 to 50
<i>Morus alba</i>	25 to 40
" <i>rubra</i>	25 to 40
<i>Negundo aceroides</i>	30 to 40
<i>Nyssa sylvatica</i> (multiflora)	30 to 50
<i>Populus angustifolia</i>	30 to 40
<i>Prunus Cerasus</i>	30 to 40
<i>Pterocarya fraxinifolia</i>	30 to 40
<i>Pyrus Aucuparia</i>	30 to 35
" <i>baccata</i>	30 to 40
" <i>communis</i>	30 to 50
" <i>Malus</i>	30 to 40
<i>Quercus Cerris</i>	40 to 50
<i>Robinia viscosa</i>	25 to 35
<i>Salix babylonica</i>	30 to 40
<i>Sassafras officinale</i>	35 to 40
<i>Sophora japonica</i>	30 to 40
<i>Ulmus fulva</i>	45 to 50

THIRD HEIGHT.

<i>Acer campestre</i>	15 to 20
" <i>cinnabatum</i>	15 to 20
" <i>glabrum</i>	10 to 12
" <i>grandidentatum</i>	20 to 30
" <i>palmatum</i>	12 to 15
" <i>pensylvanicum</i>	18 to 30
" <i>tataricum</i>	20 to 25
<i>Alnus glutinosa</i>	15 to 20
" <i>incana</i>	18 to 20
" <i>maritima</i>	15 to 20
" <i>pubescens</i>	15 to 20
" <i>serrulata</i>	18 to 30
<i>Amelanchier canadensis</i>	20 to 25
<i>Asimina triloba</i>	8 to 12
<i>Betula alba</i> var. <i>populifolia</i>	20 to 30
<i>Cercis canadensis</i>	15 to 20
<i>Cornus florida</i>	15 to 15
" <i>mascula</i>	12 to 20
<i>Corylus arborescens</i>	18 to 20
" <i>coccinea</i>	15 to 20
" <i>cordata</i>	18 to 25
" <i>crus-galli</i>	12 to 20
" <i>donagallii</i>	15 to 18
" <i>oxyacantha</i> and varieties	15 to 20
" <i>sub-villosa</i>	20 to 25
" <i>tomentosa</i>	15 to 20
<i>Euonymus atropurpureus</i>	10 to 12
<i>Forestiera acuminata</i>	18 to 24
<i>Fraxinus longicuspis</i>	20 to 30
<i>Halesia diptera</i>	18 to 20
" <i>tetraptera</i>	15 to 20
<i>Hamamelis virginica</i>	18 to 20
<i>Ilex decidua</i>	15 to 20
<i>Koeleruteria paniculata</i>	20 to 25
<i>Laburnum vulgare</i>	18 to 20
<i>Magnolia conspicua</i> and varieties	25 to 30
" <i>glauca</i>	20 to 30
" <i>hypoleuca</i>	20 to 25
" <i>lobus</i>	15 to 20
" <i>Soulangiana</i>	15 to 20
" <i>speciosa</i>	15 to 20
" <i>umbrella</i> (tripetala)	20 to 30
<i>Ostrya virginica</i>	20 to 30
<i>Oxydendrum arboreum</i>	25 to 30

<i>Prunus</i> <i>acida</i>	8 to 12	<i>Betula</i> <i>alba pendula nana</i>	2 to 3	<i>Helwingia</i> <i>japonica</i>	2 to 3
" <i>americana</i>	12 to 15	" <i>glandulosa</i>	2 to 4	<i>Hibiscus</i> <i>syriacus</i> and vars.	10 to 15
" <i>angustifolia</i>	10 to 12	" <i>humilis</i>	1½ to 2	<i>Hippophae</i> <i>rhamnoides</i>	5 to 7
" <i>avium</i>	8 to 12	" <i>papyracea nana</i>	7 to 9	" <i>salicifolia</i>	10 to 12
" <i>Davidiana</i>	10 to 20	" <i>pumila</i>	3 to 4	<i>Hydrangea</i> <i>arborescens</i>	3 to 4
" <i>domestica</i>	10 to 15	" <i>nana</i>	1½ to 2	" <i>paniculata</i> , early and late vars.	4 to 6
" " var. <i>Myrobala</i>	10 to 15	<i>Buddleia</i> <i>japonica</i>	3 to 4	" " <i>grandiflora</i>	4 to 6
" <i>euargyriatus</i> var. <i>mollis</i>	15 to 20	<i>Callicarpa</i> <i>purpurea</i>	2 to 3	" <i>quercifolia</i>	4 to 5
" <i>Mahaleb</i>	15 to 18	<i>Calycanthus</i> <i>floridus</i>	4 to 5	" <i>radiata</i>	3 to 4
" <i>Miquelliana</i>	12 to 18	" <i>lavigatus</i>	5 to 7	" " var. <i>niven</i>	3 to 4
" <i>nigra</i>	8 to 12	" <i>occidentalis</i>	5 to 7	" <i>vestita</i>	5 to 7
" <i>Padus</i>	15 to 20	<i>Caragana</i> <i>altagana</i>	3 to 4	<i>Hypericum</i> <i>adpressum</i>	8 to 10
" <i>pendula</i>	15 to 20	" <i>arborescens</i>	7 to 9	" <i>aureum</i>	3 to 4
" <i>pennsylvanica</i>	10 to 25	" " <i>Redowski</i>	3 to 4	" <i>calycinum</i>	8 to 10
" <i>Pseudo-cerasus</i>	10 to 12	" <i>Chamalya</i>	2 to 3	" <i>densiflorum</i>	2 to 2½
" <i>sibirica</i>	10 to 12	" <i>frutescens grandiflora</i>	3 to 4	" <i>galoides</i>	1 to 2
" <i>Simouii</i>	10 to 12	" <i>pygmaea</i>	1 to 2	" <i>hircinum</i>	1½ to 2
" <i>spinosa</i>	8 to 12	" <i>spinosa</i>	2 to 3	" <i>Kalmianum</i>	2 to 3
<i>Pyrus</i> <i>americana</i>	18 to 25	" <i>tragaenoides</i>	2 to 3	" <i>patulum</i>	1½ to 2
" <i>aria</i>	15 to 20	<i>Castanea</i> <i>pumila</i>	10 to 12	" <i>prolificum</i>	2 to 3
" <i>corobaria</i>	10 to 15	<i>Ceanothus</i> <i>americanus</i>	2 to 3	<i>Rex</i> <i>integra</i>	8 to 9
" <i>Michauxii</i>	15 to 20	" <i>ovatus</i>	1 to 2	" <i>lavigata</i>	6 to 8
" <i>prunifolia</i>	15 to 20	<i>Cephalanthus</i> <i>occidentalis</i>	6 to 7	" <i>monticola</i>	10 to 12
" <i>rivularis</i>	10 to 15	<i>Chionanthus</i> <i>retusa</i>	3 to 5	" <i>Sieboldi</i>	4 to 5
" <i>sambucifolia</i>	20 to 25	" <i>virginica</i>	5 to 7	" <i>verticillata</i>	6 to 8
" <i>spectabilis</i>	20 to 25	<i>Clematis</i> <i>Davidiana</i>	3 to 4	<i>Incarrvillea</i> <i>Olga</i>	1 to 1½
<i>Pterostyrax</i> <i>hispidum</i>	15 to 18	" <i>stans</i>	4 to 5	<i>Indigofera</i> <i>decora</i>	1 to 2
<i>Rhamnus</i> <i>catharticus</i>	15 to 18	<i>Clethra</i> <i>acuminata</i>	4 to 5	" <i>Gerardiana</i>	2 to 3
" <i>Purshiana</i>	10 to 12	" <i>alnifolia</i>	4 to 5	<i>Jamesia</i> <i>americana</i>	2
<i>Rhus</i> <i>typhina</i>	18 to 20	" <i>canescens</i>	2 to 4	<i>Keria</i> <i>japonica</i> and vars.	2 to 3
<i>Salix</i> <i>longifolia</i>	12 to 18	" <i>tomentosa</i>	2 to 3	<i>Lespedeza</i> <i>Sieboldi</i>	4 to 5
" <i>lucida</i>	15 to 20	<i>Colutea</i> <i>arborescens</i> and vars.	4 to 5	<i>Leucothoe</i> <i>Davisii</i>	2
<i>Syringa</i> <i>japonica</i>	20 to 25	<i>Cornus</i> <i>alba</i>	4 to 6	<i>Ligustrum</i> <i>Ibota</i>	6 to 8
<i>Tamarix</i> <i>chinensis</i>	10 to 18	" <i>alternifolia</i>	8 to 10	" <i>ovalifolium</i>	5 to 7
<i>Xanthoxylum</i> <i>americana</i>	12 to 18	" <i>asperifolia</i>	5 to 7	" <i>Quiboui</i>	3 to 5
CONIFERS.		" <i>australis</i>	3 to 5	" <i>sinensis</i>	4 to 6
FIRST HEIGHT.		" <i>brachypoda</i>	5 to 6	" <i>Stauntoni</i>	4 to 6
<i>Abies</i> <i>balsamea</i>	60 to 75	" <i>candidissima</i>	5 to 6	" <i>vulgare</i> and vars.	3 to 5
" <i>concolor</i>	90 and upward	" <i>circinata</i>	6 to 7	<i>Lindera</i> <i>Ben-zoin</i>	8 to 10
" <i>Nordmanniana</i>	80 to 90	" <i>Kousa</i>	8 to 10	<i>Linnaea</i> <i>borealis</i>	1
<i>Chamaecyparis</i> <i>spherooides</i>	60 to 75	" <i>sericea</i>	5 to 7	<i>Lonicera</i> <i>alpegena</i>	2 to 3
<i>Larix</i> <i>americana</i>	60 to 90	<i>Coronilla</i> <i>Emerus</i>	1 to 1½	" <i>angustifolia</i>	2 to 3
" <i>occidentalis</i>	60 to 75	<i>Corylopsis</i> <i>pauciflora</i>	4 to 6	" <i>chrysantha</i>	5 to 7
<i>Picea</i> <i>Engelmannii</i>	50 to 75	" <i>spicata</i>	3 to 4	" <i>ciliata</i>	3 to 4
" <i>pungens</i>	75 to 100	<i>Corylus</i> <i>americana</i>	6 to 8	" <i>carulea</i>	2 to 3
<i>Pinus</i> <i>resinosa</i>	60 to 80	" <i>Avellana</i> and vars.	8 to 12	" <i>iberica</i>	5 to 6
" <i>Strobus</i>	100 and upward	" <i>Colurna</i>	10 to 15	" <i>involucrata</i>	4 to 5
<i>Tsuga</i> <i>canadensis</i> and varieties	75 to 80	" <i>heterophylla</i>	3 to 4	" " <i>Karelinskii</i>	2 to 3
" <i>taxifolia</i>	150 and upwards	" <i>mandschurica</i>	4 to 5	" <i>Maximowiczia</i>	3 to 5
SECOND HEIGHT		" <i>rostrata</i>	3 to 5	" <i>Morrowi</i>	6 to 8
<i>Abies</i> <i>cephalonica</i>	40 to 60	<i>Cotoneaster</i> <i>acuminata</i>	3 to 4	" <i>oblongifolia</i>	3 to 4
" <i>Fraseri</i>	40 to 60	" " var. <i>Simondsii</i>	4 to 5	" <i>orientalis</i>	5 to 7
<i>Juniperus</i> <i>virginiana</i>	30 to 50	" <i>baccilaris</i>	3 to 4	" <i>parviflora</i>	2 to 3
<i>Picea</i> <i>alba</i>	30 to 40	" <i>microphylla</i>	1 to 2	" <i>philomela</i>	3 to 4
" <i>nigra</i>	30 to 40	" <i>nummularia</i>	4 to 5	" <i>quinquelocularis</i>	5 to 7
" <i>orientalis</i>	40 to 60	" <i>speciosa</i>	2 to 3	" <i>Ruprechtiana</i>	4 to 7
<i>Pinus</i> <i>austriaca</i>	30 to 40	" <i>tomentosa</i>	3 to 4	" <i>Standishii</i>	3 to 4
" <i>Cembra</i>	30 to 40	" <i>vulgaris</i>	5 to 7	" <i>tartarica</i> and vars.	6 to 9
" <i>crips</i>	25 to 30	" <i>Wheelerii</i>	4 to 5	" <i>Xylosteum</i> and vars.	5 to 6
" <i>Koriensis</i>	40 to 50	<i>Cytisus</i> <i>alba</i> var. <i>præcox</i>	1 to 5	<i>Magnolia</i> <i>glauca</i> <i>Thompsoniana</i>	3 to 6
" <i>monticola</i>	30 to 40	" <i>austriacus</i>	2 to 3	" <i>parviflora</i>	6 to 8
" <i>rigida</i>	40 to 50	" <i>bilobus</i>	1 to 1½	" <i>stellata</i>	5 to 6
" <i>sylvestris</i>	35 to 50	" <i>capitatus</i>	1½ to 2	<i>Menziesia</i> <i>globularis</i>	2 to 3
<i>Taxodium</i> <i>distichum</i> and varieties	30 to 40	" <i>elongatus</i>	1 to 1½	<i>Myrica</i> <i>asplenifolia</i>	1 to 2
<i>Thuja</i> <i>occidentalis</i> and varieties	40 to 50	" <i>nigricans</i>	1	" <i>cerifera</i>	3 to 5
THIRD HEIGHT.		" <i>purpureus</i>	1	" <i>Gale</i>	3 to 4
<i>Chamaecyparis</i> <i>obtusa</i> and varieties	5 to 15	" <i>scoparius</i> and vars.	5 to 6	<i>Nemopanthes</i> <i>canadensis</i>	7 to 10
" <i>picifera</i> and varieties	5 to 15	<i>Daphne</i> <i>alpina</i>	1	<i>Neviusia</i> <i>alabamensis</i>	4 to 5
<i>Juniperus</i> <i>communis</i> <i>prostrata</i> var. <i>alpina</i>	2 to 3	" <i>Genkwa</i>	1	<i>Nuttallia</i> <i>cerasiformis</i>	4 to 5
" <i>sabina procumbens</i>	2 to 3	" <i>Mezerium</i> and vars.	2 to 3	<i>Ostryopsis</i> <i>Davidiana</i>	3
" <i>sinensis</i>	10 to 15	<i>Decodon</i> (<i>Nessaea</i>) <i>verticillatum</i>	4 to 5	<i>Paeonia</i> <i>Moutan</i>	2 to 3
<i>Pinus</i> <i>Banksiana</i>	15 to 30	<i>Desmodium</i> <i>japonicum</i>	2 to 3	<i>Palurus</i> <i>aculeatus</i>	8 to 10
" <i>parviflora</i>	15 to 30	<i>Dentzia</i> <i>gracilis</i>	1 to 2	<i>Panax</i> <i>sessiliflorum</i>	5 to 6
<i>Taxus</i> <i>baccata</i> var. <i>canadensis</i>	2 to 3	" <i>parviflora</i>	2 to 3	<i>Parrotia</i> <i>persica</i>	5 to 7
" <i>cuspidata</i>	2 to 3	" <i>scabra</i>	6 to 7	<i>Peraphyllum</i> <i>ramosissimum</i>	2 to 3
<i>Thuja</i> <i>occidentalis</i> , dwarf varieties	2 to 3	<i>Diervilla</i> <i>arborescens</i>	1 to 6	<i>Philadelphus</i> <i>coronarius</i> and vars.	5 to 7
DECIDUOUS SHRUBS.		" <i>hortensis</i> and vars.	4 to 6	" <i>Gordonianus</i>	6 to 8
<i>Acanthopanax</i> <i>spinosa</i>	5 to 6	" <i>japonica</i>	3 to 4	" <i>grandiflorus</i>	6 to 9
<i>Esculus</i> <i>macrostachya</i>	5 to 7	" <i>sessilifolia</i>	2 to 3	" " var. <i>laxus</i>	5 to 7
<i>Alnus</i> <i>cordifolia</i>	10 to 15	" <i>trifida</i>	1 to 2	" <i>hirsutus</i>	4 to 5
" <i>japonica</i>	10 to 15	<i>Direa</i> <i>palustris</i>	3 to 4	" <i>latifolius</i>	6 to 8
" <i>orientalis</i> and vars.	10 to 15	<i>Elagagnus</i> <i>argentea</i>	4 to 6	" <i>Lewisii</i>	4 to 5
" <i>viridis</i>	3 to 5	" <i>flava</i>	12 to 15	" <i>microphyllus</i>	2 to 3
<i>Amelanchier</i> <i>alnifolia</i>	4 to 6	" <i>hortensis</i>	12 to 15	" <i>nivalis</i>	6 to 9
" <i>Amelanchier</i> (<i>vulgaris</i>)	3 to 4	" <i>longipes</i>	4 to 5	" <i>pubescens</i>	5 to 6
" <i>asiatica</i>	6 to 8	" <i>macrophylla</i>	6 to 7	" <i>speciosus</i>	4 to 6
" <i>canadensis nana</i>	1 to 2	" <i>umbellatus</i> and vars.	3 to 6	" <i>triflorus</i>	4 to 6
" " var. <i>atrovatus</i>	5 to 7	<i>Eunymus</i> <i>atropurpureus</i>	5 to 7	" <i>Zeheri</i>	4 to 6
" " var. <i>spicata</i>	2 to 3	" <i>Bungeanus</i>	5 to 7	<i>Photinia</i> <i>villosa</i>	8 to 10
" <i>oligocarpa</i>	2 to 4	" <i>elatus</i>	7 to 9	<i>Physocarpus</i> (<i>Neillia</i>) <i>amurensis</i>	7 to 9
<i>Amorpha</i> <i>fruticosa</i> and vars.	5 to 7	" <i>europæus</i>	8 to 12	" <i>opulifolia</i>	7 to 9
<i>Andromeda</i> <i>ligustrina</i>	3 to 6	" " <i>Hamiltonianus</i>	7 to 8	" <i>Torreyi</i>	1 to 2
" <i>speciosa</i>	2 to 3	" <i>other</i> vars.	7 to 12	<i>Potentilla</i> <i>dahurica</i>	1 to 2
<i>Aralia</i> <i>canadensis</i>	5 to 6	" <i>latifolius</i>	10 to 15	" <i>fruticosa</i>	2 to 3
" <i>canescens</i>	8 to 9	" <i>Manckii</i>	6 to 8	<i>Prunus</i> <i>alleganensis</i>	5 to 7
" <i>chinensis</i>	9 to 10	<i>Exochorda</i> <i>Albertii</i>	4 to 6	" <i>armeniaca</i>	8 to 10
" <i>cordata</i>	4 to 5	" <i>grandiflora</i>	5 to 8	" <i>Brigantia</i>	6 to 7
" <i>hispida</i>	1 to 2	<i>Forsythia</i> <i>Fortunei</i>	6 to 8	" <i>Cerasus</i> , var. <i>Morello</i>	7 to 9
" <i>spinosa</i>	5 to 10	" <i>Sieboldii</i>	3 to 5	" <i>sempervirens</i>	8 to 10
<i>Artemisia</i> <i>Abratanum</i>	3 to 4	" <i>suspensa</i>	6 to 8	" <i>chamaecerasus</i>	2 to 3
" <i>frigida</i>	1½ to 2	" <i>viridissima</i>	3 to 5	" <i>incana</i>	2 to 3
" <i>pontica</i>	1	<i>Fothergilla</i> <i>Gardenii</i>	3½ to 4	" <i>Jacquemontii</i>	4 to 5
<i>Ascyrum</i> <i>Crux-Andree</i>	2½ to 1	<i>Fraxinus</i> <i>anomala</i>	5 to 7	" <i>japonica</i> fl. pl. and vars.	3 to 4
<i>Atrophaxis</i> <i>lanceolata</i>	1 to 1½	<i>Gaultheria</i> <i>procumbens</i>	1 to 1½	" <i>auritima</i>	5 to 7
<i>Baccharis</i> <i>halimifolia</i>	5 to 7	<i>Gaylussacia</i> <i>dumosa</i>	1 to 2	" <i>Mume</i>	6 to 10
<i>Berberis</i> <i>buxifolia</i>	2 to 3	" <i>frondosa</i>	3 to 4	" <i>persica alba plena</i> and vars.	8 to 10
" <i>canadensis</i>	3 to 4	" <i>resinosa</i>	2 to 3	" <i>Pissardii</i>	8 to 10
" <i>concinna</i>	2 to 3	" <i>Ursina</i>	2 to 3	" <i>prostrata</i>	1 to 2
" <i>Fremontii</i>	2 to 3	<i>Genista</i> <i>anglica</i>	1	" <i>pumila</i>	1 to 3
" <i>heteropoda</i>	3 to 5	" <i>dahurica</i>	2 to 3	" <i>sempervirens</i>	6 to 10
" <i>integerima</i>	3 to 4	" <i>germanica</i>	1	" <i>tomentosa</i>	3 to 4
" <i>Neubertii</i>	3 to 4	" <i>radiata</i>	1	" <i>triloba</i>	3 to 4
" <i>Sieboldi</i> (<i>Hakodaka</i>)	5 to 6	" <i>sagittalis</i>	1	" <i>virginiana</i>	5 to 7
" <i>stenophylla</i>	2 to 3	" <i>tinctoria</i> and vars.	1	<i>Ptelea</i> <i>angustifolia</i>	8 to 12
" <i>Thunbergii</i>	2 to 4	<i>Gordonia</i> <i>Altamaha</i>	8 to 12	" <i>trifoliata</i>	10 to 15
" <i>umbellata</i>	4 to 5	<i>Grewia</i> <i>parviflora</i>	4 to 5	<i>Pyrus</i> <i>arbutifolia</i> and vars.	8 to 9
" <i>vulgaris</i> and vars.	5 to 6	<i>Hammodendron</i> <i>argenteum</i>	5 to 6	" <i>Cydonia</i>	8 to 9
		<i>Hamamelis</i> <i>japonica</i>	4 to 5	" <i>japonica</i> and vars.	4 to 6

" Maulei	1 to 1½	" salicifolia and vars.	2 to 3	" glauca	1
" nigra and vars.	2 to 8	" sorbifolia	5 to 6	" latifolia and vars.	4 to 6
" Torringo var. Halleana (Parkmanii)	6 to 7	" Thunbergii	3 to 4	Ledum angustifolium	1 to 2
Quercus georgiana	5 to 10	" Tobolski	4 to 5	" latifolium	1 to 2
" ilicifolia	6 to 15	" tomentosa	2 to 3	" palustre and vars.	1 to 2
" prinoides	4 to 8	" trilobata	3 to 4	Leioophyllum buxifolium	1 to 1½
Rhamnus alnifolia	2 to 3	" Van Houttei	1 to 5	Lencothoe Catesbaei	3 to 4
" alpinus	4 to 5	Staphylea Bumalda	3 to 4	" racemosa	3 to 4
" Frangula	5 to 7	" cœchica	8 to 9	Pachystima myrsinites	1 to 2
" japonicus	7 to 8	" pinnata	6 to 7	Periploca grœca (trailing)	15 to 16
" libanoticus	3 to 5	" trifoliata	6 to 7	Potentilla tridentata	1 to 2
Rhododendron arborescens	3 to 5	Stephanandra flexuosa	3 to 4	Rhododendron brachycarpum	4 to 5
" calendulaceum	4 to 6	Stuartia pentagyna	12 to 15	" catawbiense and vars.	5 to 6
" dahuricum and vars.	3 to 4	" pseudo-camellia	12 to 15	" dahuricum sempervirens	5 to 6
" flavum	3 to 5	Styrax americana	1 to 5	" ferrugineum	1½ to 2
" nudiflorum	2 to 3	" japonica	4 to 5	" hirsutum	1 to 2
" Rhodora	2 to 3	" Obassia	6 to 8	" maximum	5 to 8
" Vaseyii	2 to 3	Symphoricarpus caesus	1 to 2	" myrtifolium	1 to 2
" viscosum	5 to 7	" mollis	1 to 2	" ponticum	4 to 6
Rhus copallina	6 to 7	" occidentalis	2 to 3	" punctatum	4 to 6
" cotinus	8 to 10	" racemosus	2 to 3	" Wilsonianum	1½ to 2
" glabra	5 to 7	" vulgaris and vars.	3 to 4	Rubus hispida (trailing)	8 to 12
" var. laciniata	3 to 4	Symplocos cratægoides	4 to 6	Skimmia japonica	3 to 4
" semialata var. Osbeckii	10 to 12	Syringa amurensis	6 to 8	Thymus vulgaris	1½ to 2½
" vernix	8 to 10	" chinensis	5 to 7	Vaccinium Vitis-Idæ	1½ to 2½
Ribes alpinum and vars.	2 to 4	" Emodi	4 to 5	Vine minor and vars. (trailing)	¾ to 1
" aureum and vars.	4 to 6	" Josikaea	5 to 7	DECIDUOUS CLIMBING AND TRAILING SHRUBS.	
" cereum	2 to 3	" ligustrina var. pèkinensis	10 to 15	Actinidia arguta	20 to 30
" cova crispa	2 to 3	" oblata	5 to 6	" polygama	20 to 30
" fasciculatum	2 to 3	" persica and vars.	4 to 6	Akebia quinata	20 to 30
" floridum	2 to 3	" pubescens	3 to 4	Aristolochia Clematis	1 to 2
" Gordonii	4 to 5	" villosa	5 to 6	" pubescens	5 to 7
" lacustre	2 to 3	" vulgaris and vars.	10 to 12	" Siphio	20 to 30
" nigrum	3 to 4	Tamarix gallica	8 to 12	" tomentosa	6 to 8
" ruscifolium	2 to 3	Ulex europæus	5 to 6	Berchemia racemosa	12 to 15
" rubrum	2 to 4	Vaccinium cespitosum	1	Celastrus articulatus	20 to 30
" sanguineum	2 to 3	" canadensis	1 to 1½	" scandens	20 to 30
" saxatile	2 to 3	" corymbosum and vars.	4 to 12	Cissus Ampelopsis	25 to 30
Robinia hispida	3 to 4	" " erythrocarpum	2 to 3	Clematis apifolia	10 to 12
" Neo-Mexicana	4 to 5	" hirsutum	1 to 2	" coccinea	3 to 5
Rosa acicularis	3 to 4	" ligustrifolium	1 to 2	" crispa	6 to 8
" Albertii	2 to 3	" macrocarpum	1 to 2	" Flammula and vars.	10 to 12
" alpina	2 to 3	" myrtillus	1 to 2	" fuscæ	6 to 8
" arkansana	2 to 3	" oxycoccus	1 to 1½	" graveolens	8 to 10
" arvensis	5 to 6	" pennsylvanicum	2 to 3	" ligusticifolia	10 to 12
" Beggariana	4 to 5	" stamineum	1 to 1½	" orientalis	10 to 12
" belgradensis	4 to 5	" uliginosum	1 to 2	" paniculata	15 to 20
" blanda	1 to 2	" vacillans.	1 to 2	" Pitcheri	6 to 8
" californica	3 to 5	Viburnum acerifolium	2 to 3	" reticulata	5 to 6
" canina var. biserrata	7 to 8	" cassinioides	3 to 4	" verticillaris	3 to 4
" Carolina	6 to 8	" cotinifolium	5 to 7	" Viorna	6 to 8
" cinnamomea siberica	3 to 4	" dentatum	5 to 7	" virginiana	15 to 20
" cinnamomea var. subglobosa	3 to 4	" dilatatum	3 to 5	" vitalba and vars.	20 to 30
" corifolia	4 to 5	" Lantana	6 to 8	" viticella and vars.	8 to 12
" Dumetorum	4 to 6	" lantanoides	4 to 6	Cocculus carolinus	8 to 10
" Englemanni	2 to 3	" Lentago	10 to 20	Cotoneaster buxifolia	1
" Fendleri	3 to 4	" macrocephalum	3 to 4	Decumaria barbara	8 to 10
" foliosa	3 to 4	" molle	4 to 6	Euonymus americana var. obovatus	1 to 1½
" gallica var. candidissima	3 to 4	" nudum	3 to 4	Loniceræ Albertii	1 to 2
" glauca	4 to 5	" Opulis and vars.	6 to 7	" caprifolia	6 to 8
" grandiflora	3 to 4	" pæniculorum	5 to 6	" Etrusca	5 to 7
" indica var. anemona-flora	4 to 5	" phlebotrychium	8 to 10	" flava	6 to 7
" kamtschatka	4 to 5	" prunifolium	3 to 4	" fragrantissima	10 to 12
" laxa	2 to 3	" pubescens	4 to 6	" glauca	6 to 8
" lucida	1 to 2	" Sibboldii	4 to 6	" hirsuta	10 to 12
" micrantha	4 to 6	" tomentosum	10 to 12	" japonica and vars.	10 to 15
" nitida	1 to 2	" " plicatum	6 to 7	" Porcyneum	8 to 10
" nutkana	5 to 7	Wistaria japonica alba nana	1 to 1½	" sempervirens and vars.	8 to 10
" pimpinellifolia	3 to 5	Xanthoxerus sorbifolia	4 to 5	" Sullivanii	8 to 10
" pisocarpa	3 to 5	Xanthorrhiza apifolia	2 to 3	Lycium chinensis	10 to 12
" pomifera	4 to 5	Zizyphus spina-Christi	5 to 7	" vulgare	10 to 12
" provincialis	1 to 2	EVERGREEN TREES.		Menispermum canadense	15 to 20
" punila	1	Ilex opaca	35 to 40	" dahuricum	15 to 20
" rubiginosa	4 to 5	EVERGREEN SHRUBS.		" japonicum	15 to 20
" rubrifolia	5 to 6	Ethionema coridifolia	1½ to 2½	Pueraria Thunbergiana	30 to 40
" rugosa	4 to 6	Andromeda floribunda	2 to 2½	Rosa Boursaultii	8 to 10
" spinosissima and vars.	3 to 4	" japonica	2 to 3	" multiflora	3 to 4
" spinulifolia	5 to 7	" mariana	2 to 3	" setigera	5 to 8
" stylosa	3 to 4	" polifolia	1 to 2	" repens	8 to 9
" sulphurea fl. pl.	3 to 4	Arctostaphylos Uva-ursi (trailing)	6 to 8	" Wichuraiana	8 to 10
" tomentosa	3 to 5	Berberis aquifolia	3 to 5	Rubus canadensis	7 to 10
" trachyphylla	3 to 4	" nervosa	1 to 2	" discolor fl. pl.	6 to 7
" villosa	3 to 4	" repens	1 to 2	" fruticosus fl. pl.	6 to 8
" Yellow Austrian	2 to 3	Buxus japonicus	2 to 3	" triflorus	1 to 2
Rubus deliciosus	3 to 4	" sempervirens and vars	2 to 6	Rhus aromatica	1 to 2
" nutkanus	4 to 5	Calluna vulgaris and vars.	1 to 1½	" toxicodendron	20 to 30
" occidentalis	4 to 6	Cassandra calyculata	2 to 3	Ribes prostratum	1 to 2
" odoratus	5 to 6	Ceanothus cuneata	3 to 5	Schizandra chinensis	10 to 15
" spectabilis	4 to 5	Corema Conradi	1	Smilax glauca	10 to 12
" strigosus	5 to 7	Daboecia (Menziesia) polifolia and vars.	1	" Pseudo-China	10 to 15
Salix argyrocarpa	10 to 12	Daphne cneorum	1	" rotundifolia	15 to 30
" chlorophylla	1 to 2	Empetrum nigrum	1½ to 1½	Tecoma radicans and vars.	20 to 50
" discolor	9 to 12	" rubrum	1 to 1½	Vitis aestivalis	15 to 20
" phyllifolia	1 to 1½	Ephedra kokanica	¾ to 1	" amurensis	25 to 30
" tristis	1 to 2	" monostachya	1½ to 2½	" californica	5 to 6
" viminalis	5 to 8	" vulgaris	1½ to 2½	" candicans	25 to 30
Samolus canadensis	5 to 7	Epigaea repens	1 to 1½	" cinerea	20 to 30
" nigra and vars.	4 to 6	Erica carnea	1 to 1½	" Coigneitia	25 to 30
" racemosa	4 to 6	" stricta	1 to 1½	" cordifolia	15 to 20
Santolina chamaecyparissus	4 to 5	" tetralix and vars.	1 to 1½	" Labrusca	25 to 30
Securinega rhamniflora	5 to 6	" vagans	1 to 1½	" monticola	25 to 30
Shepherdia argentea	3 to 4	Euonymus americanus variety obovatus (trailing)	1 to 1½	" palmata	14 to 15
" canadensis	2 to 3	" japonicus	8 to 12	" riparia	15 to 20
Spirea alpina	1 to 2	" nanus	1 to 2	" Romanetti	15 to 20
" betulifolia	1 to 2	" radicans and vars. (trailing)	10 to 15	" rotundifolia	10 to 15
" cana	3 to 4	" Sieboldianus	2 to 3	(Ampelopsis section).	
" cantouensis	3 to 4	Helianthemum angustifolium	1½ to 2½	" aconitifolia	15 to 20
" chama-drifolia and vars.	7 to 9	" glaucum	1½ to 2½	" heterophylla and vars.	15 to 20
" discolor	3 to 4	" vulgare	1½ to 2½	" japonica	15 to 20
" Douglasii	4 to 5	Hudsonia ericoides	¾ to 1	" quinque-folia	30 to 40
" hypericifolia	2 to 3	" tomentosa	¾ to 1	" serjanie-folia	15 to 20
" japonica and vars.	1½ to 2	Iberis coriacea	1	" tricuspidata	30 to 40
" levigata	4 to 5	" tenorinum	1	Wistaria chinensis	15 to 20
" media and vars.	1½ to 2	Ilex crenata	3 to 4	" frutescens	15 to 20
" Millefolium	5 to 6	" glabra	2 to 3	" var. alba	15 to 20
" prunifolia fl. pl.	4 to 5	Kalmia angustifolia and vars.	1 to 1½	" var. magnifica	15 to 20
" pubescens	4 to 5			" multijuga	15 to 20
				" var. alba	15 to 20

THE AMERICAN FLORIST

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Address THE AMERICAN FLORIST CO., Chicago.

Society of American Florists.

RULES RELATING TO THE MANAGEMENT OF THE
ANNUAL TRADE EXHIBITION.

1. The Society of American Florists shall,
through the Executive Committee, control all
features of the trade exhibition.

2. There shall be appointed annually at the
winter meeting of the Executive Committee a
superintendent of exhibits. The vice-president
of the S. A. F. or the local organization in the
place where the convention of the current year is
to be held shall be invited to recommend such
superintendent for election by the Executive Com-
mittee, as aforesaid.

3. Said superintendent shall have general
charge of all details of the annual exhibition, and
shall be under seven days' full service and pay at
and during the convention.

4. He shall receive all applications for space
and assign the same in the order in which they
are received by him. He shall provide and ar-
range all necessary tables and staging.

5. Judges shall be appointed by the president
and secretary at least one month before the ex-
hibition. The president and secretary may appoint
substitutes in place of judges who may be absent.

6. The exhibition shall be closed between the
hours of 2 and 4 p. m. on the first day of the con-
vention, during which time the judges shall pass
on the exhibits, and they shall report promptly
to the secretary on the same day. Exhibitors
shall be excluded from the hall while the judges
are at work.

7. Awards shall be given as follows: Highest,
Certificate of Merit; second, Honorable Mention;
third, Highly Commended.

8. The judges shall withhold awards on un-
worthy exhibits.

9. Judges shall be governed by the merits of
the article as exhibited and shall state in their
report on what special points of excellence awards
are based.

10. In case any article or device has received
an award at a previous S. A. F. exhibition awards
shall cover subsequent improvements only.

11. No award shall be made covering the qual-
ity of seeds, fertilizers, paints and other articles
of such nature that an intelligent opinion cannot
be had without a practical test, but awards for
creditable display may be given.

12. Doors of exhibition shall be closed five min-
utes before the opening hour of each session of
the Society, and remain closed during the session.

13. Exhibition to be open not less than two
hours before the opening of the morning sessions,
to remain open during the day, except during the
session hours, and as provided in Sec. 6, and to
remain open one hour after the closing of the
evening session.

14. Wall space shall be measured four feet in
height, and when practicable a table not less than
one foot wide shall be added gratis, if desired and
applied for with entry.

15. Space desired shall be designated in square
feet. A uniform charge of 25 cents per square
foot for all space will be made, excepting that all
plants and flowers contributed for exhibition
purposes only shall be admitted free.

16. Exhibits not in position before 1 p. m. on
the first day of the convention may be excluded
from the report of awards.

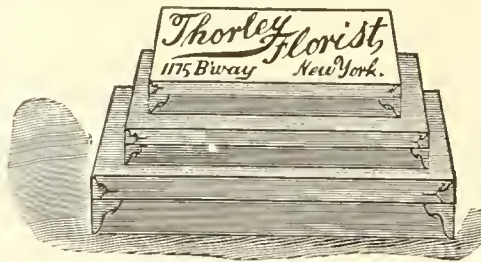
17. No articles exhibited shall be removed
until after the close of the last day's session, except
by permission of the superintendent of exhibition.

18. Exhibition classes to be arranged as follows:
A—Plants; B—Cut Blooms; C—Boilers and Heat-
ing Apparatus; D—Greenhouse Appliances, in-
cluding flower pots; E—Florists' Supplies, in-
cluding Fancy Earthenware; F—Bulbs and Seeds;
G—Miscellaneous.

19. Exhibitors may group their goods together,
excepting in the case of living plants and cut flow-
ers. These shall be shown in a separate depart-
ment from the other classes.

20. All adjustments not covered by rules or pub-
lished action of the Executive committee shall be
referred to that committee.

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Folding Flower Boxes are the best
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these goods, and made so as to resist
moisture, thereby keeping the flow-
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shape.

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If you want First-Class Flowers, properly packed and delivered on time, send us your orders and you will get what you want.

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HEADQUARTERS FOR AMERICAN BEAUTIES.

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WHOLESALE CUT FLOWERS,
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Telephone Main 4937. CHICAGO.
Our Roses best them all, in quality.
Headquarters for fine American Beauties.

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COMMISSION FLORISTS,
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Consignments solicited. Prompt attention to all orders.

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Strong stocky plants, lightly packed. Satisfaction guaranteed. Low prices on large lots.
G. VAN BOCHOVE & BRO.,
KALAMAZOO, MICH.

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Cut Flowers.

NEW YORK, June 9.	
Roses, Beauty.....	1.00@15.00
" all other varieties.....	.50@ 1.00
Carnations, ordinary.....	.25@ .50
" fancy.....	.50@ 1.00
Sweet peas per 100 bunches.....	1.50@ 3.00
Valley.....	1.00@ 3.00
Harrisli.....	2.00@ 4.00
Mignonette.....	.50@ 2.00
Adiantum.....	.75 @ 1.00
Asparagus.....	.50 @ .75
Smilax.....	12.00@15.00

BOSTON, June 9.	
Roses, Gontier, Niphetos.....	1.00@ 2.00
" Perle, Mermet.....	2.00@ 3.00
" Bride, Bridesmaid, Meteor.....	2.00@ 4.00
" Beauty.....	5.00@20.00
Carnations.....	.50@ .75
" fancy.....	.75@ 1.50
Valley.....	4.00
Longiflorum.....	6.00@10.00
Mignonette.....	2.00@ 3.00
Sweet peas.....	.25@ .50
Adiantum.....	1.00
Smilax.....	15.00@20.00
Asparagus.....	50.00

PHILADELPHIA, June 9.	
Roses Beauties long.....	10.00@16.00
" medium.....	8.00@15.00
" short.....	2.00@ 5.00
" Brides, Bridesmaid, La France etc.....	2.00@ 4.00
" Kaiserin.....	3.00@ 4.00
" small teas.....	1.00@ 2.00
Carnations, fancy.....	1.00
" first quality.....	.50@ .75
Sweet peas.....	.50
Smilax.....	15.00@20.00
Asparagus.....	35.00@50.00
Adiantum.....	1.00

CHICAGO, June 12.	
Roses, Beauties.....	8.00@20.00
" seconds.....	4.00@ 6.00
" Brides, Bridesmaid.....	3.00@ 6.00
" Meteor.....	3.00@ 6.00
" Perle, Wootton.....	2.00@ 4.00
" Testout.....	4.00@ 6.00
" Kaiserin.....	4.00@ 6.00
Carnations.....	1.00
" fancy.....	1.50
Longiflorum.....	8.00
Auratum.....	8.00
Valley, cold storage.....	1.00@ 2.00
Mignonette.....	.50 @ .75
Sweet peas.....	.25@ .50
Campanulas, per bunch.....	.25c
Coreopsis.....	.40
Centarea Marguerite.....	1.00
Cornflowers.....	.40
Smilax.....	15.00@18.00
Adiantum.....	1.00

ST. LOUIS, June 10.	
Roses, Beauties, long.....	5.00@12.50
" short.....	2.00@ 4.00
" select stock.....	2.00@ 4.00
" general stock.....	1.00@ 1.50
Carnations, fancy.....	1.50@ 2.00
" ordinary.....	1.00
Valley.....	3.00
Cornflowers.....	.50
Daisies field.....	.15
Harrisli.....	8.00@10.00
Callas.....	5.00@ 8.00
Sweet peas.....	.25@ .35
Cape jasmines.....	1.00
Ferns, Adiantum.....	12.00@15.00
Smilax.....	1.00
Ferns, common.....	1.00

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Successor to PECK & SUTHERLAND,
Successors to WM. J. STEWART,
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Careful Shipping to all parts of the country.
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WHOLESALE FLORISTS,
501 Sixth Avenue,
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Consignments Solicited.

Re Seed Trade.

AMERICAN SEED TRADE ASSOCIATION.

S. E. BRIGGS, Pres.; T. W. WOOD, 1st Vice-Pres.; ALEX. RODGERS, 2nd Vice-Pres.; A. L. DON, 114 Chambers St., New York, Sec'y and Treas. The fourteenth annual meeting will be held at Niagara Falls, N. Y., June 9 to 11, 1896.

American Seed Trade Association.

The fourteenth annual convention of the American Seed Trade Association was held at the International Hotel, Niagara Falls, June 9, 10 and 11. The attendance, while a fair average one, was mainly from the Central States, the extreme east and west but little represented. The following is a partial list of members and firms present. Several new members were admitted. An excursion was had on the new lower river electric road.

Messrs. S. M. Pease, Alexander Rodgers, Wm. Meggat, A. L. Don, Jerome B. Rice, T. W. Wood, W. J. Langbridge, Frank Ford, C. L. Allen, C. S. Clark, H. M. Wall, A. J. Brown, J. M. Lupton, Robert George, Everett B. Clark, S. F. Willard, James Vick, W. H. Elliott, Jr., Charles Vick, I. B. Clark, John H. Allan, Howard Earle, S. E. Briggs, W. H. Grennell, E. W. Burt, Rogers Bros., A. C. Kendall, W. J. Mandeville, O. E. Mueller, F. A. Stecher, M. H. Duryea, J. W. Hogg, M. Moorehouse.

The following officers were elected: President, T. W. Wood; vice-presidents, Alex Rodgers and J. B. Rice; secretary and treasurer, A. L. Don; assistant secretaries, M. H. Duryea and S. E. Briggs; executive committee, D. I. Bushnell, W. P. Stokes, S. D. Crosby, S. F. Willard.

The Sioux City Nursery and Seed Co. Failure.

The attorneys connected with this assignment furnish us the following list of creditors, which is of course only approximate. A number of the accounts of the leading firms interested in the failure are comprised under the item "Bills payable."

O. W. Clark & Son, Buffalo, N. Y.	\$ 31.15
Johnson, Robbins & Co., Wetherfield, Conn.	722.28
W. Atlee Burpee & Co., Philadelphia, Pa.	13.56
Johnson & Stokes, Philadelphia, Pa.	1.80
J. M. Thorburn & Co., New York	8.00
Z. K. Jewett, Sparta, Wis.	3.04
Northrup, Braslan, Goodwin Co. Chicago	657.57
Harnden Seed Co., Kansas City, Mo.	7.50
Mrs. S. E. B.	927.81
F. F. B.	65.00
M. A. Johns	1,174.00
C. A. B.	175.00
A. D. C.	1,074.84
J. B. Rice & Co. Cambridge, N. Y.	5,750.44
D. I. Bushnell, St. Louis, Mo.	119.42
J. M. Kimberly, Santa Clara, Cal.	1,716.51
Howcroft & W. London	1,804.34
S. L. Allen & Co. Philadelphia	143.22
S. F. Leonard, Chicago	445.56
J. Carter & Co., London	168.76
D. Hill, Dundee, Ill.	23.99
W. F. Heikes, Huntsville, Ala.	56.40
Bemis Omaha Bag Co., Omaha, Neb.	57.75
R. B. Hutchcraft, Paris, Ky.	220.77
D. M. Ferry & Co.	526.09
Cleveland Seed Co.	529.00
Osgood & Blodgett, Minneapolis, Minn.	116.83
Sprague, Warner & Co. Chicago	70.40
H. Nuuggesser, New York	45.00
Rush Park Seed Co.	129.25
Whitman Agric. Co.	40.50
Baker & Vauter Co.	25.50
D. O. Woodruff	31.75
Bills payable	52,897.42
Illinois Seed Co.	26.87
Lister	300.00
City Bills	300.00

B. RIMBAUD, of Toulon, the well known dealer in French bulbs, is reported dead.

Roman Hyacinths.

Our cable advices say, and we say, this is the time to buy. We can save you money if you will send us your order **at once.**

VAUGHAN'S SEED STORE,

CHICAGO: P. O. Box 688.

New York: 14 Barclay Street.

JOBBER OF FLORISTS' BULBS FOR 20 YEARS.

TRAVELING SALESMEN WANTED.

Five experienced and competent Seed Travelers wanted. None but those who are thoroughly acquainted with the seed trade, and can show their annual sales, need apply.

Robert Buist Company, Philadelphia, Pa.

MR. E. V. HALLOCK is still in San Francisco.

MR. W. ATLEE BURPEE visited Santa Rosa June 5.

VISITED CHICAGO: J. A. Severens, Ang. Rhotert, J. Horace McFarland.

Toronto.

The monthly meeting of the Horticultural Society was, owing to the busy season I suppose, not very well attended, only thirteen members showing up, and as it takes fifteen to make a quorum there was only an informal talk on various seasonable subjects.

The busy plant season will begin to flag by the end of this week probably. So far as I can hear from extensive inquiries it has been one of the liveliest ever seen while it lasted, and growers are pretty well cleaned out of everything. Of course there are a few grumblers; they are with us always, but there are less than usual.

I hear that Mr. John Cotterill, florist, Deer Park, has bought a place with large solid brick house on the corner of St. Clair avenue and Bathurst street (about a mile west from his present situation), price \$6,000, and that he will move the whole of his plant there during the summer months. Success to him. Times are getting better I should say.

The space before the New Parliament Building promises to look something as it ought to this year. Mr. Wm. Houston has been planting out some large beds in various styles for the Ontario government, one of which, a sub-tropical bed, is especially fine. And Mr. Chambers has been doing likewise on the city part.

E.

THE DIRECTORY

FOR 1896

IS NOW READY.

PRICE \$2.00.

AMERICAN FLORIST CO.

BULBS

For Fall Delivery.

Give us your wants, and will quote you price that will give you a living profit.

WM. ELLIOTT & SONS,

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L. HARRIS BULBS FOR JULY DELIVERY AT SPECIAL PRICES IF ORDERED NOW. SEND FOR PRICES.

Import Price List **DUTCH BULBS** now ready. Free.

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Bulbs, Azalea Indica, Palms, Roses, and all kinds of Nursery and Fruit Tree Stocks.

Catalogues on application.

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Vegetable and Flower Seeds. All the newest and best varieties—quality unsurpassed, Illustrated Catalogue **FREE.** **WEEBER & DON,** Seed Merchants and Growers, 114 Chambers St., New York City.

**PRIMULA SEED.**

This Year's Crop. Now Ready.

Our superb mixture contains only the choicest fringed strains, and will give the greatest satisfaction. Trade pkt. 50c.

Cineraria Seed.

Our strains are unsurpassed for richness of color as well as for size and perfection of form. Trade pkt. 50c.

HERRMANN'S SEED STORE,

413 E. 34TH STREET,

Near Long Island Ferry, **NEW YORK.**

Agent for LYSOL, the ideal insecticide.

Mention American Florist.



G. C. WATSON, IMPORTER OF BULBS FOR FLORISTS, 43 N. 10th St., Phila., U. S. A.

SEND TO-DAY for a copy of **WATSON'S** New Trade List for Fall 1896, just issued; 16 pages of useful information to all florists who grow or contemplate growing **BULB-IOUS STOCK, VALLEY, SPIRÆA, INDIAN AZALEAS, MUSHROOMS, Etc.** We import direct from Bermuda and Europe; also from China and Japan all the latest and best of everything in the line. Don't delay. Write me at once. All inquiries cheerfully answered. Catalogue free.

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Hillegom, Holland.

Extra quality of **HIGH GRADE FORCING BULBS AT LOW PRICES.** We now book orders for **Azalea Indica, Palms, etc.** The largest collection of sundry bulbs and plants.

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SHEEP MANURE.

PER 100 POUNDS \$2.50.

Closest prices on 500 or 1000 lb lots.

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NEW YORK AND CHICAGO.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns

Pansy Seed.

The Cunningham strain of finest mixed, equal to any strain in America.

$\frac{1}{2}$ oz. \$2.00; 1 oz. \$4.00; 3 ozs. \$11.00.

CASH WITH ORDER.

JOS. H. CUNNINGHAM, Delaware, O.

Please mention the American Florist every time you write any of the advertisers on this page.

WE ARE HEADQUARTERS ON
BULBS FOR FORCING,
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ENGLISH MUSHROOM SPAWN.

Special prices on application.

JOHN GARDINER & CO., Seedsmen,
631 Market St., Philadelphia, Pa.

TUBEROUS

Begonia Bulbs.

All colors separate.

\$2.00 per hundred. \$18.00 per thousand.

L. C. BOBBINK, Rutherford, N. J.

Branch of the Horticultural Co., Boskoop, Holland.

Mention American Florist.

Chicago.

To the man who had plenty of good roses this past week would be Christmas every day. The demand was good, but roses that could be considered good, or even passably so, were amazingly scarce. It seemed as if every buyer wanted roses, and nothing else, and the stock coming in was not only very short, but unusually poor. The few good flowers to be obtained went off quickly at \$4 to \$6, and \$3 was realized for some that would ordinarily be viewed with cold disdain. Very fine Meteors are seen; they bring \$5, while Testout and some few other extra select flowers brought \$6. It is likely that \$7 would be paid for some high grade flowers, but the commission men are not disposed to rush prices up to an abnormal height. The present prices are sufficiently unusual for this season of the year.

Carnations were extremely plentiful all the week, and usually very good. But buyers did not want carnations, they insisted on roses, and poor roses sold better than good carnations. Even the humble fakir didn't want carnations, were they ever so cheap, but towards the end of the week he had to take them or nothing, and prices became more settled, varying from 75 cents to \$1.50. There has again been a shortage of lily of the valley, and towards the end of the week the price advanced to \$5. Good quality cornflowers of clear blue and white are in good demand at 40 cents, but there is practically no demand for washed-out and uncertain shades. It is a mistake to allow these poor colors to remain in the bed; they should all be rogued out as soon as they show flower.

Lilium auratum and *longiflorum* is being cut in fine quality by Mr. Northrup; they sell for \$1.50 a dozen. Outdoor candidum is coming in from Michigan. Some fine Canterbury bells are sent in from Elmhurst; they sell readily at 25 cents a bunch. They are cut long, the whole plant being taken. Pink and white sweet peas sell well at 50 cents, but mixed and undecided colors are unsalable.

At the meeting of the Florists' Club Thursday night there was a bright and interesting session, hardy roses being the subject of the evening. Owing to our abnormal weather there was no exhibit, the flowers being all past this week. Mr. Geo. Klehm read a paper, which will be found in another column of this issue. A dozen or more well-known nurserymen, who had been attending the sessions of their association in this city, were present, several of them participating in the discussion, a synopsis of which will appear in our next issue. Among these were Mr. Harrison of the Storrs & Harrison Co., Mr. Malloy of Ellwanger & Barry, Mr. Harlan P. Kelsey of Kawana, N. C., Mr. J. Van Lindley of Pomona, N. C., Prof. H. E. Van Deman, and others.

Mr. H. Weber of Oakland, Md., visited Chicago this week. He brought with him some of his carnations, which were remarkably fine blooms. If Hector and Uncle John would grow as well with everyone as with Mr. Weber there would be no complaint of either. He informs us that his place is on the top of the Allegheny Mountains, and if purchased plants show any signs of rust when he receives them they soon grow out of the disease entirely. Dean Hole, Bouton d'Or and Buttercup were all fine, and the same may be especially said of Minnie Cook and Helen Keller.

Postmaster General Wilson has denied the privileges of the mails to the Standard

EGYPTIAN AND AMERICAN LOTUS.

We have some excellent tubers of *Nelumbium Speciosum* and *Nelumbium Luteum*, which we offer in small or large quantities at lowest prices. Also several of the newer choice and scarce kinds. Now is the most favorable time to plant.

VICTORIA REGIA VAR. RANDI.

Our stock of this regal aquatic is unusually fine and can be recommended as the best for all purposes and localities, with or without artificial heat. We offer strong plants from \$5.00 each upward. Place orders now for immediate or future delivery.

HENRY A. DREER, 714 Chestnut Street, Philadelphia.

30,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Extra fine plants, in bud and bloom, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, \$1 per 100; \$8 per 1000.

NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.

We are the Largest Growers of Verbenas in the country.

Our plants cannot be surpassed.

J. L. DILLON, Bloomsburg, Pa.

Seed Co. and the Excelsior Seed Co., with headquarters in this city.

Visiting Chicago: Mr. H. Weber, Oakland, Md.; Mr. Z. K. Jewett, Sparta, Wis.; Mr. H. E. Van Deman; Prof. L. H. Bailey; Mr. H. P. Kelsey, Kawana, N. C.; Mr. Harrison of Storrs & Harrison, Painesville, O.; Mr. Malloy of Ellwanger & Barry, Rochester, N. Y.; Mr. J. Van Lindley, Pomona, N. C.

Springfield, Mass.

Trade was good on Decoration Day. Carnations, as usual, were scarce, and outside stuff was at a premium. Roses, in this vicinity, were scarce, but there were enough to be had in New York. Prices were fairly good, but considerably lower than in past years.

Wm. Schlatter & Son, it is said, are going to add another house, this one to be entirely devoted to carnations.

There have been some changes in N. J. Herrick's store. Miss Katherine M. Welch, who has been with Mr. Herrick for quite a number of years, has resigned and gone to her home in Vermont. Also Mr. Standish will leave and is to take a position on the B. & M. railroad. He also has worked for Mr. Herrick for a long time.

Mr. Pielke has bought the greenhouses in West Springfield, leased for quite a number of years to H. Madsen. He expects to take possession the first of July. Mr. Pielke's brother, who has grown stuff for the Peabody Cemetery several years, and will continue to do so, will have charge of the plant. Mr. Madsen has no plans for the future.

Plant trade has been good. Miller had a car load from New York and has had good sale on them. Plants grown around here are plenty, but mostly poor and of bad quality. Some of the best sold well and without trouble.

A manufacturer here has had one hundred window boxes put in his factory filled with geraniums.

The Hampden County Horticultural Society at a meeting last night arranged for the sweet pea show to be held in July, details of which will be learned later.

The Amateur Society is to hold a rose show this week, Friday and Saturday. By the looks of the gardens around town it seems as if there would be quite a showing.

Holyoke's society held their rose show Thursday and Friday. B. M.

MIDDLETOWN, N. Y.—M. Bartholomew has bought out the greenhouses and business of Mrs. Firnhaber, which he has been managing for the past year and a half. He intends adding another house this summer.

PALM SEEDS

On hand in splendid condition.

	Per 100	Per 1000	Per 5000
<i>Areca lutescens</i>	\$1.50	\$10.00	\$47.50
<i>Areca rubra</i>	1.50	10.00	47.50
<i>Geonoma gracilis</i>	1.75	12.00	55.00
<i>Geonoma Schottiana</i>	1.75	12.50	60.00

Non-germinating seeds will be replaced. Our Palm Growers' Guide free on application.

SCHWAKE SEED CO. (Inc.)

404 East 34th St., NEW YORK.

AZALEAS, the finest commercial varieties.

PALMS, large, healthy stock, well grown.

ARACARIAS, from cuttings only.

BAY TREES, perfect shape, in all sizes.

SANDER, Bruges, Belgium.

Agent: **A. DIMMOCK,**
106 & 108 Liberty Street, NEW YORK.
SEND FOR SPECIAL OFFER.

Celery Plants.

Strong growth, White Plume, Golden Heart, and Giant Pascal, per 1000, \$1.40; per 10,000, \$12.00.

Stone Tomato Plants, \$3.00 per 1000.

COLUMBUS SEED CO., Co'umbus, O.

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"ROSE LEAF"

Extract of Tobacco

INSECTICIDE!

PRICE: 1 gallon can, \$1.50; 5 gallon can, \$5.00.

Applied either by vaporizing or by syringing. Try it.

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Ink and Think

are combined in all work done at the Mount Pleasant Printery. The best results and best looks for your money. Write to

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Horticultural Printers.

Harrisburg, Pa.

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For 1896.

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Price \$2.00.

AMERICAN FLORIST CO.

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MAY INTEREST YOU.

If so, take our Mid Season list that appeared in last week's AMERICAN FLORIST and add these for variety sake, and you need not fear the "other fellow" if you do them well.

WHITE. Per 100
 MILEE. THERESE REY. \$3 00
 MISS FLORENCE PULLMAN. 3 00
 THE QUEEN. 3 00

YELLOW.
 A. H. FEWKES. 3 00
 MRS. CRAIGE LIPPINCOTT. 4 00
 PHILADELPHIA. 8 00

PINK.
 INTER OCEAN. 3 00
 V. H. HALLOCK. 3 00
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SUNDRY COLORS.
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NURSERIES,
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Japan Lilies,
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Write for Catalogue.

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 Cable Address:
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New Asparagus Sprengeri 30c. New Spiraea Anthony Waterer 25c. New Climbing Meteor Rose 30c. New Golden Rambler. Yellow Souperet, New Crimson Rambler \$5 per 100. New Justicia. New Double Rudbeckia. New Cannas. Carex Japonica. Bougainvillea. Gladioli. Dbl. New Life Geranium. Geranium Agnes Kelway, best pink. Send for Catalogue of Novelties and Trade Bulbs at low prices. **A. BLANC & CO.,** Philadelphia, Pa. Japanese Jardinieres at very low prices. List free.

SPECIALTIES

IN BEST VARIETIES.

ROSES, from 3-inch pots.

CARNATIONS, for fall delivery.

CHRYSANTHEMUMS.

SMILAX.

VIOLETS.

Prices low. Seed for list.

WOOD BROTHERS, FISHKILL, N. Y.

We devote our whole attention to

DAHLIAS

and not only have the LARGEST and BEST collection in America, but guarantee our stock true to name. We are now filling orders for trial grounds. Every SEEDSMAN and FLORIST interested in DAHLIAS should send for our new descriptive Trade List.

W. P. PEACOCK Atco, N. J.

Wm. Simpson.

CUT OCT. 15TH.

The Earliest Large CHRYSANTHEMUM.
 Price to the Trade, \$17.50 per 100;
 \$100.00 per 1000.

JOSEPH HEACOCK, Wyncote, Pa.

E. G. HILL & CO.,

Wholesale Florists

RICHMOND, INDIANA.

FOR TWO WEEKS ONLY.

Special Offer. Specimen Palms.

LATANIA BORBONICA, 5 to 6 feet, 6 to 8 leaves, \$3 50 \$4 and \$5 each.
PHOENIX CANARIENSIS, 5 to 6 feet, 6 to 7 leaves, \$4 and \$5 each.
ARECA LUTESCENS, 5 to 6 feet, 4 to 8 shoots, \$5, \$6 and \$7 each.
SABAL GLAUCESCENS, very hardy vase plants, 2½ to 3 feet, \$1.50 each.
KENTIA McARTHURII, 3 to 3½ feet, well furnished, \$2.50
DRACENA INDIVISA LINEATA, fine vase plants, 3 to 4 ft. \$1, \$1.50, \$2 ea.
PRITCHARDIA GRANDIS, 3 feet, 7 to 8 leaves, perfect gems, \$4 each.

The above prices are 25 per cent. less than regular trade prices.

N. B.: How many Liliun Harrisii Bulbs will you plant? Let us give you prices. We can beat the bottom, we know we can. We live right there in Bermuda and know all about the stock.

BELLE SIEBRECHT ROSE, strong plants, 4-inch pots, \$12.00 per 100;
 2½-inch pots, \$8.00 per 100.

SIEBRECHT & WADLEY,

NEW ROCHELLE NURSERIES,

NEW ROCHELLE, N. Y.

PINK IVORY,

(MISS AGNES L. DALSKOV.)

The invincible New Chrysanthemum, Strong, healthy plants from
 2-inch pots \$1 per dozen; \$5 per 100; \$40 per 1000.

SPECIAL PRICES ON LARGER QUANTITIES.

M. HANSEN, New Durham, N. J.



PALMS
 AND
FERNS.

The LARGEST STOCK west of New York.

GEO. WITTBOLD, 1708 N. Halsted St.,
 CHICAGO.

When writing mention American Florist

THE DIRECTORY

For 1896

IS NOW READY.

PRICE \$2.00.

American Florist Co.,

DRAWER 164

CHICAGO.

CLEMATIS.

Two years, all large flowering, choice
 named, leading kinds \$2.50 \$20 00
 Strong, heavy plants 35c each, 4.00 30 00
 H. P. Roses, 2 years, 4-inch pots 1.50 10 00
 Clematis Jackmanni, nice young plants
 for potting or planting up for fall sales 1.00 8 00
 Daisies dbl. Eng. Snowcrest, Snowflake .50 1 00

F. A. BALLER, Bloomington, Ill.

VINCA MAJOR VARIEGATA,

in 4 and 4½-inch pots.

FIRST SIZE. \$10.00 per 100
 SECOND SIZE. 8.00 per 100
 In 2-inch pots. 2.00 per 100

C. LENGENFELDER,

Berteau and Western Avenue, CHICAGO.

Always mention the American Florist when writing to advertisers.



Per 100 Per 1000
 Areca rubra. \$1.25 \$10.00
 Cocon Weddelliana. 1.50 12.50
 Geonoma gracilis. 1.50 12.50
 " Schottiana. 1.50 12.50
 Latania borbonica. 35 2.50

All Chamerops, Phoenix and many others
 now in stock. A full list on application.

FOR AUGUST DELIVERY.

Kentia Belmoreana. \$1.25 \$10.00
 Kentia Forsteriana. 1.25 10.00

J. L. SCHILLER, Rutherford, N. J.

When writing mention the AMERICAN FLORIST

PANSY X SEED.

The Jennings strain of finest American grown
 Pansy Seed. New crop ready June 15th. The
 grandest combination of colors ever sent out.

The largest flowering.

The strongest growing.

and the most beautiful colors in great variety.
 Very finest mixed.

Pkt. of 2500 seeds, \$1.00; ½ oz. \$3.00; 1 oz. \$6.00;
 3 ozs. \$15.00. White and yellow in separate pkts.,
 same as above. Half pkts. 50 cts.

CASH WITH ORDER.

E. B. JENNINGS, L. B. 254, Southport, Conn.
 Grower of the finest Pansies.

Roemer's Superb Prize Pansies.

The finest strain of Pansies in the World.

Introducer and Grower of all the leading
 Novelties.

Catalogue free on application.
FRED ROEMER, SEED GROWER,
 Quedlinburg, Germany.

CYCAS REVOLUTA.

We are prepared to sell you just what you
 want at reasonable rates.

Write for quotations.

WISCONSIN FLOWER EXCHANGE,
 Box 87, MILWAUKEE, WIS.
 When writing mention the American Florist

Worcester, Mass.

Since Decoration Day trade has been very fair, and with plenty of good flowers and fair prices storemen ought to be in a contented state of mind. Carnations and roses are holding on well and are very fine for this time of the year, outside roses wintered poorly and now are having a hard time of it on account of the rose worms. A few fair flowers are coming in now but rather short stemmed. We have had plenty of rain lately and outside stuff is looking nicely, especially carnations. Nearly all outside planting is finished now and a very fair bedding business is reported.

The regular weekly exhibitions of the Horticultural Society began June 4, and the show was very creditable. The features of the show were the excellent displays of rhododendrons and azaleas made by President O. B. Hadwen, which were awarded firsts in both classes, and the very fine showing of wild flowers made by Arba Pierce for exhibition only. Mrs. S. E. Bennett also had a splendid exhibit and was awarded a first premium. Very keen competition was the rule in all the other classes and the result was one of the best shows of this season. The following firsts were awarded: H. F. A. Lange, 30 vases cut flowers and one vase cut flowers; Edward Hall, pansies; F. A. Blake, begonias; Mrs. S. E. Fisher, 10 vases iris and 24 vases hardy cut flower. Numerous gratuities were awarded. A. H. L.

THE new directory contains a total of 9,528 names and addresses, of which 5,258 are florists who do a general local trade, having greenhouses and retailing the product of same, 797 are florists who grow for the wholesale market only, 645 are retail store florists who have no greenhouses, 52 are wholesale commission dealers in cut flowers, 1,524 are nurserymen, 543 combine the business of florist and nurseryman, 364 are seedsmen, 248 combine the business of florist and seedsmen, and 97 who combine all three branches of the business.

KANSAS CITY, MO.—The Probst Bros. Floral Co. will soon build two new houses 50x100.

CRAWFORDSVILLE, IND.—McDonald & Steele will add two new houses, one 20x100, and one 10x80, steam heating.

STERLING, ILL.—F. A. Belt contemplates building two new greenhouses. Also a retail store and conservatory down town.

WAUPUN, WIS.—B. Wade Hewett has purchased his father's interest in the Waupun Nursery and will continue under his own name.

The Oaks Greenhouse Co., Jackson, Mich.

Per 100
Begonias in variety, 2 1/2-inch pot plants..... \$2.50
Chrysanthemums, 2 1/2-inch pot plants..... 2.50
" " R. Cuttings, standard vars..... 1.00
Marguerite Daisy, R. Cuttings..... 1.00
" " 2 1/2-inch plants..... 2.50
Glechoma Hederacea, R. Cuttings..... .90
Verbena, best strain..... .75
Vine Variegata, R. Cuttings..... 1.00
Cuphea, Pilea, German Ivy, etc..... 1.00
If to be sent by mail add 10c per 100. Cash with order.

Bulbos Begonias.

LAING'S STRAIN. In separate colors.

Lilium Longiflorum, Tuberoses, Spiræas, etc. Now on hand.

Ask for prices.

HULSEBOSCH BROS., Englewood, N. J.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

CANNAS. CANNAS.

The magnificent crimson bedder

CHAS. HENDERSON.

Dormant, \$3.00 per 100; \$25.00 per 1000.
Started, 4.00 per 100. 35 00 per 1000.

Will fill cash orders at above prices as long as stock lasts. All other varieties sold out.

THE COTTAGE GARDENS, Queens, L. I., N. Y.

HERR'S CARNATIONS.

WM. SCOTT.....\$1.25 per 100; \$10.00 per 1000

CUT CARNATIONS.

Orders for cut carnations filled at \$1.00 per 100. None west of Pittsburg.

CASH WITH ORDER OR C. O. D.

L. B. 496. ALBERT M. HERR, LANCASTER, PA.

Mention American Florist.

Our 1895 PALM COLLECTIONS are better than ever, and consist of 17 3 to 4-inch for \$3, or 34 for \$5; 10 4 and 5-inch Palms for \$3.50, or 20 for \$6.00; 6 6-inch Palms for \$5.00, all the best varieties.

ROSES— Per 100
Monthly and Tea, best kinds, 2-inch . . . \$ 2 50
" " " " 3-inch . . . 5 00
" " " " our selection . . . 4 50
Hybrid Perpetual, assorted kinds, 2-in . . 2 00
Crimson Rambler. 10 00

FERNS—
Adiantum Cuneatum, 3 and 4-inch, \$6 & 10 00
" Farleyense, 3-inch 25 00
" " 4-inch. 50 00
" Capillus Veneris, 3 inch . . . 5 00
Sword, 3-inch 5 00
CHRYSANTHEMUMS, 20 best kinds, 2 1/2-in . . 2 00
BEGONIAS, assorted kinds, 3-inch. \$2 to 6 00
FUCHSIAS, assorted kinds. 2 00
SWAINSONA, 4-inch 5 00
COLEUS, all kinds 2 00
GERANIUMS, assorted kinds. 3 00
Samples free. Send for Catalogue.

WILLIAMS & SONS CO.,
BATAVIA, ILL.

CABBAGE PLANTS.

Grown from the very finest strains of seed.

Plants stocky and fine and strictly true to name.
Autumn King, Henderson's Succession, Improved Surehead, Premium Flat Dutch, Shortstem Drumhead, Fottler's Improved Brunswick, Red Dutch.

Price, \$2.00 per 1000; 5000 or more (in one shipment) \$1.50 per 1000.

CAULIFLOWER PLANTS.

EARLY SNOWBALL, 60c. per 100; \$5.00 per 1000.
LATE ALGIERS, 50c. per 100; \$4.00 per 1000.
KOHL-RABI PLANTS. Early White Vienna. Purple Vienna, 40c. per 100; \$3.00 per 1000.

THE LOVETT CO., Little Silver, N. J.

CARNATIONS A SPECIALTY.

Rooted Cuttings. Young Plants. Field Grown Plants in season. Write for prices.

GEO. HANCOCK & SON, Grand Haven, Mich.

CARNATIONS.

F. DORNER & SONS CO.,

LA FAYETTE, IND.

100,000 LATE CABBAGE.

Drumhead Flat Dutch and Surehead. 100,000 YELLOW JERSEY and NANSEMOND Sweet Potato Plants, \$1.00 per 1000. Cash.
J. W. CARROTT, Brookston, Ind.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

New Yellow Marguerite.

25 Rooted Cuttings for \$1.00.
Strong 2 1/2-inch, 6 for \$1.00.

The best Daisy for cut flowers. A pleasing shade of yellow; long stems; blooms the year around. Sample blooms mailed on receipt of 10 cts

3-inch BRIDES, BRIDESMAIDS, METEORS, 6 cts. Nice, clean stock.

Also small 'MUM plants.

ASPARAGUS PLUMOSUS, strings 8 to 12 feet long, 75 cts. per string.

CASH WITH ORDER.

F. BURKI, Bellevue, Pa.

Mention this paper.

CARNATIONS

Orders solicited for ROOTED CUTTINGS.

KOHINOOR takes the lead.

Other Novelties of the Standard sorts at standard prices. All healthy and strong.

C. J. PENNOCK,

The Pines. KENNETT SQUARE, Chester Co., PA.
Mention American Florist

CHRYSANTHEMUMS.

All the choicest novelties and the cream of the standard varieties. A limited quantity of fine, healthy plants at reasonable prices. Let us know your wants.

Carnation plants all sold.

H. WEBER & SONS, Oakland, Md.

Mention American Florist.

DO YOU WANT CARNATIONS?

If so, why not GROW the BEST?

50,000 ROOTED CUTTINGS, including Daybreak, Wm. Scott, Goldfinch, Lizzie Gilbert, Emily Plerson, Lizzie McGowan, Tidal Wave, S. Spray, Hinz's White, &c. Can do you justice in quality and prices. Write me before you buy. Address CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

CARNATIONS.

Rooted Cuttings in immense quantity, strong and well-rooted and particularly free from rust.

Daybreak, Wm. Scott, Thos. Cartledge, Tidal Wave \$2.00 per 100; \$15.00 per 1000
Lizzie McGowan, Silver Spray, Portia, \$1.50 per 100; \$12.00 per 1000.
Lady Campbell Violets in any quantity, \$1.00 per 100; \$8.00 per 1000.

JOS. RENARD, Unionville, Chester Co., Pa.

Della Fox and Annie H. Lonsdale

ALL SOLD.

MYERS & SAMTMAN, Chestnut Hill, Phila.

NEW ROSE

"Mrs. PIERPONT MORGAN"

Listen for a moment to what a voice from far off Springfield, Illinois, has to say about our young stock of this rose:

May 4, 1896.
"EDWIN LONSDALE, Chestnut Hill, (Station H), Philadelphia, Pa.

"I have sent a box of 'Morgan' rose plants arrived Saturday in good shape. Fine Plants. I would like to know how you produce plants of such size in a two (2) inch pot?"

All I can say is that it is all owing to the natural vigor of the variety, and perhaps to some extent to the natural rose growing qualities of our soil.

We have a few more left of the same size. Order early or you may get left, for I do not know of a more profitable variety to grow for cut flowers than MRS. PIERPONT MORGAN.

Don't forget our address:

EDWIN LONSDALE, Station H,
Chestnut Hill, PHILADELPHIA, PA.

Last Offer of SURPLUS STOCK ROSES. TEAS. ROSES.

Papa Gontier, Marie Van Houtte, Fortune's Yellow,
Mme. Hoste, Cath. Mermel, Gloire de Dijon,
Rainbow, Ernest Metz, Luciole,
W. Bon Silene, Safrano, Dr. Grill,
Golden Gate, Mrs. Hosanquet, Louis Richard,
De Watteville, Empress Eugenie, Wichuriana,
Caroline Kuster, Appoline, Macrophylla,
Eliza Fidler, James Sprunt, Mrs. Degraw,
Martha du Berg, Queen's Scotch, La Nelce,
Eliza Heyman, Arch Duke Charles, Leo XIII,
Caroline Cook, Cherokee, Furstin Blismarek
\$2.50 per 100; \$22.00 per 1000.

HYBRID PERPETUALS.

Mme. Plantier, Gen'l Jacquemont,
Chas. Lefebvre, Dr. Hogg,
Anton. Monton, Prince Camille,
Pierre Notting, Eliza Boelle,
La Rosiere, Pride of Waltham,
Marie Baumann, Gloire de Margottin,
Cardinal Patrizzi, Baron de Bonstetten,
Vick's Caprice, Dr. Andry.
\$4.00 per 100; \$35.00 per 1000.

MOSS ROSES.

James Veltch, Mouseline,
Capt. Harroger, Glory of Mosses,
Alice Leroy, Prolific (or) Gracilis,
Henri Martin. \$4.00 per 100; \$35.00 per 1000.

Also a fine stock of YOUNG CARNATIONS, 2½-in. pots, at \$2.50 per 100.

Address **NANZ & NEUNER,**
582 Fourth Ave., LOUISVILLE, KY.

Do You Need Roses?

I have 25,000 good ones out of 2½-inch pots, and can give you prices that will open your eyes.

BRIDES.....2½ cts.
BRIDESMAIDS.....2½ cts.
MERMETS.....2½ cts.
PERLES.....4 cts.
METEORS.....4 cts.

This stock is in good shape. Cash with order.

CHAS. KOEPPEN, SEDALIA, MO.

100,000 Strong Field-Grown ROSES

(Budded and own roots) for Fall delivery.

Try our new **BIOTA AUREA NANA.**

Thousands of **Olea Frangrans, Azaleas, Camellias and Magnolia Fuscata.**

Prices on application.

P. J. BERCKMANS, Augusta, Ga.

WEST ISLIP GREENHOUSES.

MARIE LOUISE VIOLETS—Rooted runners, \$4.00 per 1000.

ROSES—La France, Bridesmaids, Brides, Perles, and American Beauty. 3-inch pots extra fine stock, \$6.00 per 100. Cash with order.

E. B. SUTTON, Jr.

P. O. Address **BABYLON, LONG ISLAND N. Y.**

ROSES.

FRANK L. MOORE,
CHATHAM, NEW JERSEY.

WANTED!

2000 MARIE LOUISE VIOLETS.

Will trade Brides, Testouts or Perles for them.
HARVEY & CO., Richmond, Va.

American Beauty Plants.

These are extra fine and absolutely free from Black Spot.

2½-inch pots, \$70.00 per 1000.

3-inch pots, 110.00 per 1000.

4-inch pots, 130.00 per 1000.

JOHN BURTON, Chestnut Hill, PHILADELPHIA, PA.

Roses, Roses & Roses.

All the best NEW and STANDARD varieties for winter forcing now ready in A1 stock, and of

MRS. PIERPONT MORGAN,

the most profitable known variety for forcing, and of the easiest possible culture. I have a grand lot now ready. Write for special prices on this variety for large lots to

JOHN N. MAY, Summit, New Jersey.

Mention American Florist.

REINBERG BROS.,

AM. BEAUTIES, 3-inch pots.....@ \$6.00	BRIDESMAIDS, 2-inch pots.....@ \$2.00
AM. BEAUTIES, 2-inch pots.....@ 4.00	METFORMS, 2-inch pots.....@ 2.00
TESTOUTS, 2-inch pots.....@ 2.00	KAISERIN, 2-inch pots.....@ 2.00
BRIDES, 2-inch pots.....@ 2.00	" 4-inch pots.....@ 5.00

Send orders to **51 Wabash Ave., CHICAGO, ILL.**

Mention American Florist.

ROSES

BEAUTIES, MERMETS, CUSINS, TESTOUTS, NIPHETOS, PERLES, BRIDES, BRIDESMAIDS, METEORS, HOSTE, LA FRANCE, WOOTTON, WATTEVILLES, AUG. VICTORIA, 2 3 and 4-inch pot plants. Cash with order. Owing to number booked, they will be executed in rotation to assure prompt delivery. Order early.

Address for quotations, **VILLA LORRAINE ROSERIES, MADISON, NEW JERSEY.**

Rogers Park Floral Co.

GOOD FIRST CLASS STOCK.

	In 2½-inch pots	per 100	per 1000
Am. Beauties.....	5	00	\$40.00
C. Testout.....	4	00	35.00
Kaiserin Victoria.....	4	00	35.00
La France.....	4	00	35.00
Belle Siebrecht.....	4	00	35.00
Bridesmaids.....	3	00	25.00
Brides.....	3	00	25.00
Perles.....	4	00	35.00
Meteors.....	3	00	25.00
Meteors, 4-inch pots.....	5	00	40.00

Orders for less than 100 not accepted
Ready for shipment now.

Send Orders to **41 Wabash Ave., Chicago.**

Mention American Florist.

ROSES.

Fine stock from 3½-inch pots, \$4.00 per 100.
ETOILE DE LYON, MAMAN COCHET,
MRS. DEGRAU, BRIDE,
MARIE GUILLOT, BRIDESMAID,
MARY WASHINGTON, MME. HOSTE,
MERMET, MME. F. KRUGER.

TERMS CASH.

NATIONAL PLANT CO., Dayton, O.

Mention American Florist.

A FINE LOT OF

**Meteors,
and La France,**

Now ready out of 3 or 4-inch pots. Write for sample and prices to

GEO. A. KUHLE, Pekin, Ill.

ROSES.

BRIDES, METEORS, MERMETS and LA FRANCE, \$3.00 per 100; \$25.00 per 1000.
WOOTTONS, \$3.50 a 100; \$30 a 1000; 3 in. \$5.50 a 100.
Until sold, LA FRANCE, 3-in. \$5 a 100; \$45 a 1000.
Strong, healthy stock. 25 at 100, and 250 at 1000 rates. Cash with order.

R. F. TESSON,

West Forest Park, ST. LOUIS, MO.

ROSES. FIRST-CLASS STOCK.

Meteors, Brides, Perles, White Perle, Watteville and La France,
4-inch, \$6.00 per 100; 3-inch, \$4.00 per 100.

CRABB & HUNTER, Grand Rapids, Mich.

ROSES.

NOW READY, strong, healthy plants from 3 and 4-inch pots, Am. Beauties, Brides, Perles and Mermets, at \$3.00 per 100.

Also strong, healthy Smilax Plants, from flats, at \$1.00 per 100.

Will exchange for good decorative plants if desired.

Address **E. F. OVERMAN, Wabash, Ind.**

Mention American Florist

ROSES. NOW READY.

First-Class Stock, 2½-inch pots.

	Per 100	Per 1000
METEORS.....	\$2.50	\$20.00
BRIDES.....	2.50	20.00
BRIDESMAIDS.....	2.50	20.00

A. G. PRINCE & CO.,

88 Wabash Ave., CHICAGO,

Cincinnati.

The general run of cut flowers the past week has been moving slowly; had it not been for funeral work the storemen would have cause to complain. Plant trade is about over, and it seems as though the florists around this city are all satisfied with the spring trade this year.

There was quite a gathering in front of Mr. J. Conger's stand in the Sixth Street Market Saturday evening. The attraction was a *Cereus grandiflorus*, one of the well known night blooming cereus, and a grand plant it was, with three open flowers.

Mr. Wm. Bolia of Carthage Pike has rented his greenhouses and stock to Mr. Anthony Fischer, formerly gardener to Alex McDonald. Mr. Bolia has been in poor health the past year, and he thinks rest is what he needs. H. SCHWARZ.

Right to Lop Off Branches of Ornamental Trees on Adjoining Lands.

Trees which stand wholly within the boundary line of one's land belong to him, although their roots and branches may extend into the adjacent owner's land. But the adjacent owner may lop off the branches or roots of such trees up to the line of his land. If the tree stand so nearly upon the dividing line between the lands that portions of its body extend into each, the same is the property in common of the land owners. And neither of them is at liberty to cut the tree without the consent of the other, nor to cut away the part which extends into his land, if he thereby injures the common property in the tree. Such is the law as laid down in Washburn on Real Property. This doctrine has also been accepted by the supreme court of errors of Connecticut. In the late case of Robinson vs. Clapp, 32 Atlantic Reporter 939, this court, however, says that it must be apparent that the very nature of things differentiates such a so-called common interest from an ordinary tenancy in common, either of real or of personal property. In the case of a tree standing upon the dividing line, yielding no fruit, of trifling value for wood if cut, of no value while standing, except for ornament or shade, what relief by any remedy, legal or equitable, provided for ordinary tenants in common, the court asks, can a part owner of such tree, to whom its continued existence is of no advantage, but an injury, obtained? Practically none.

It would really seem to come to this; that each of the landowners upon whose land any part of a trunk of a tree stands has in interest in that tree, a property in it, equal, in the first instance, to, or perhaps rather identical with, the part which is upon his land; and, in the next place, embracing the right to demand that the owner of the other portion shall so use his part as not unreasonably to injure or destroy the whole. That he should have less right to lop those branches extending over his own land than if he owned none of it is unreasonable. The injunction should not extend further than to restrain him from cutting any portion of the trunk and any further cutting of the branches or of the roots than he might lawfully have done had the trunk stood wholly upon the adjoining land, but reaching to the dividing line. If in fact the trunk divides itself, as the tree extends upwards into two or more parts, of similar size, with more of a perpendicular than horizontal extension each of those parts should be regarded as a portion of the trunk.

THE BAMBOO GARDEN, by Mr. A. B. Freeman-Mitford, is not only a valuable addition to our scant information on this class of plants, but a most readable and entertaining volume as well. Mr. Freeman-Mitford studies the bamboos especially in view of their adaptability to garden use. There is no doubt we can add greatly to the variety of our gardens by the use of these plants, but we rarely see any other than *Arundinaria japonica*, commonly called *Bambusa metake*. The author of this book has proved the unsuspected hardiness of many bamboos in England, and it seems likely that similar experimental culture here will give us a number of accessions to American gardens. As a reference book "The Bamboo Garden" will aid us in settling vexed questions in nomenclature, the author's familiarity with Japan and its language enabling him to study the synonyms of Japanese varieties. The book is most agreeably written, its dress is admirable, and it is beautifully illustrated from drawings by Alfred Parsons. (Macmillan & Co., New York, publishers. Price \$3.)

THE SEVENTH REPORT of the Missouri Botanic Garden, recently received by us is a handsome volume of 209 pages, freely illustrated. In addition to the reports of the director and trustees, it contains several scientific papers, and a valuable catalogue of the Sturtevant Preliminary Library.

THE only reference list of cannas is to be found in our new directory and reference book. The list is arranged alphabetically and gives name, date of introduction name of introducer and a brief description.

THE reference lists in the new Directory and Reference book give descriptions and other valuable information regarding 2,543 varieties of roses, 2,988 varieties of chrysanthemums, 495 varieties of carnations and 524 varieties of cannas.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—On a private or commercial place by a competent young man with 6 years' experience; steady and sober; best of reference. Address CHICAGO, care American Florist.

SITUATION WANTED—By florist and gardener, 12 years' experience, 1 year in the country; German, single; private place preferred; would like a steady one. MAX GROEZINGER, 212 Hunter St., Rochester, Minn.

SITUATION WANTED—By a young German, age 23, with 5 years' experience in general greenhouse work; can furnish best of references; southern states preferred. Address E. BLUM, Collingdale P. O., Del. Co., Pa.

WANTED—Experienced florist with some money. T. care American Florist.

WANTED—Good rose grower. Address at once REINBERG BROS., 51 Wabash Ave., Chicago.

WANTED—To purchase greenhouse property in running order near Boston. Give full particulars. DAVID LUCASON, Maiden, Mass.

WANTED—1600 feet good second hand 4-inch east pipe and fittings; give price. S. WILSON & SONS, Marion, Ohio.

WANTED—A young florist for greenhouse and store. German preferred. 630 W. Van Buren St., near Lincoln, Chicago.

WANTED—500 feet of second hand east 4-inch greenhouse pipe, weighing from 10 to 12 pounds per foot; also tees and other fittings for a large house. CASH, Box 453, Topeka, Kansas.

WANTED—Florist who thoroughly understands raising roses, carnations and general greenhouse stock in a town of 7,000 inhabitants. Position open June 20. P. HENRY CORBETT, Mt. Sterling, Ky.

WANTED—For my store and conservatory a young industrious and sober man; should understand care of palms, ferns, forcing bulbs and valley; must be a good designer and decorator. \$25 a month and board to begin with; steady place for the right party. H. SCHILLER, 537 W. Madison St., Chicago.

FOR SALE—At half price, three greenhouses, stock, boiler, pipes and everything belonging to it, if applied for soon. W. S. P., care American Florist.

FOR SALE—2 small greenhouses, size of lot 170x33 feet, east front; 8-room house, barn, etc., water plenty; nice grapple. For particulars address CHAS. J. DIEHL, Norwood Park, Ill.

FOR SALE CHEAP—Extra good second-hand 3-inch boiler tubes, 12 feet long, with collars for packing. They take the place of cast iron pipe for hot water at less than half the price. W. H. SALTER, Rochester, N. Y.

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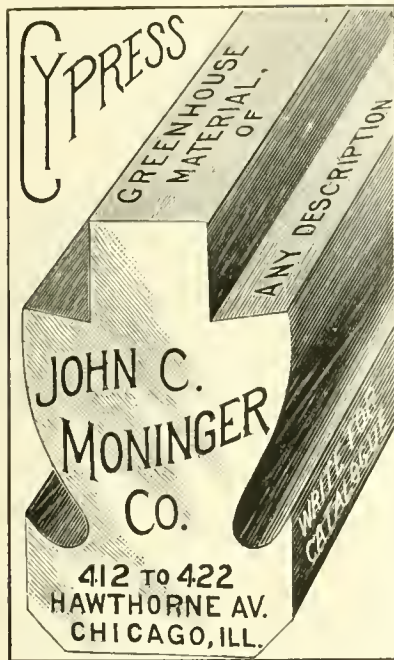
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— AND —
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FOR 1896,

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CONTENTS.

The names and addresses of all the Florists, Nurserymen and Seedsmen in the United States and Canada, arranged alphabetically in States and Provinces, the exact branch of the business each is engaged in being indicated by the following

. . . . KEY

- F** Florists who do a general local trade, having greenhouses and retailing the product of same.
- G** Florists who grow cut flowers or plants for the wholesale market and who do not sell at retail. Almost always within a short distance of a large city.
- R** Retail store florists who have no glass of their own. Nearly always in the large cities.
- D** Wholesale commission dealers in cut flowers.
- N** Nurserymen.
- X** Those who are both Nurserymen and Florists.
- S** Seedsmen.
- Z** Those who are both Seedsmen and Florists.
- A** Those who combine all the branches, viz.: Florists, Nurserymen and Seedsmen.

. . . . ALSO

- A list of Trade Organizations, both National and Local, with names and addresses of principal officers, time and place of meetings and date of organization.
- Statistics regarding Floriculture, the Nursery Industry and Seed Growing from the last U. S. Census report.
- A list of firms in the trade that issue catalogues, with a key indicating the prominence of each branch of the trade in same.
- A list of leading Cemeteries in which attention is paid to Ornamental Horticulture.
- A list of leading Park Superintendents and of the Botanical Gardens of the United States.
- Seasonable Hints for the year about the practical work of the Florist, written by Wm. Scott, giving instructions not only when to do certain work, but how to do it most effectively and economically.
- A complete alphabetical list of Roses in commerce in America, brought up to date and of incalculable value for reference.
- Similar lists of Chrysanthemums, Carnations and Cannas.
- Historical sketches to date of the Society of American Florists, American Carnation Society, National Chrysanthemum Society of America, Florists' Hail Association, American Seed Trade Association and American Association of Nurserymen.
- A list of Leading Horticultural Societies.
- Full and accurate information about Express and Postage rates.

Rochester, N. Y.

The demand for flowers during the past week was somewhat ahead of the last; June weddings are in order and even if no very elaborate decorations are called for there has been a goodly number of them, keeping most of the florists rather busy. Carnations and roses are still plentiful, but few of them are of first quality. Pæonias and out door roses sell well at present, and are really good, having had a refreshing rain about a week ago; other out door stuff is to be had in large quantity at very low figures. An immense lot of white pinks such as Her Majesty and Snow was used up during the week in funeral desigus, some of the pieces were very large, though the prices at this time of the year are not correspondingly high.

Bedding out is still going on and the demand for the plants does not let up yet, at the cemeteries the cutting of prices continues, and as most of the dealers around there have to buy nearly all their stock, it was a mystery to us how they could afford to sell so low, but now we hear that some growers on the outskirts of the city are wholesaling their stock of geraniums in 4-inch pots to these dealers at \$3 per 100 and we do not wonder any longer. Nearly all the larger establishments are trying to keep up a fair price for all their bedding stuff, and would rather not fill an order if the purchaser insists on buying below their usual figures. We may record a decided increase in the sale of French cannas this season, so that the stock of these all over town is dwindling down to the lowest point. Strobilanthes does not seem to take well here as a bedding plant, and whoever of us has worked up a stock is compelled to use them up in window boxes or vases, if he does not want to keep them on his hands; still we hope after another season when the beauty and the good qualities of this plant will be better known, people may perhaps think more favorably of it.

J. B. K.

LEE'S SUMMIT, Mo.—The nurseries of H. G. Graves & Son have been attached on two suits. One was brought by Libbie Withnell for \$3,000 and the other by Jennie E. Graves for \$6,000. The litigation is the result of a dispute over money between members of the Graves family.

COUNCIL BLUFFS, IA.—J. L. McPherson has sold a half interest in his florist business to W. B. Reed, ex-county treasurer. The style of the firm will be McPherson & Reed.

BARABOO, Wis.—A. C. Tuttle, nurseryman, has made an assignment.

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Announcement to Florists.

We desire to announce the dissolution of the firm of Sipple Dopfel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopfel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

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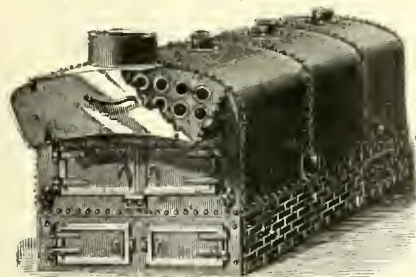
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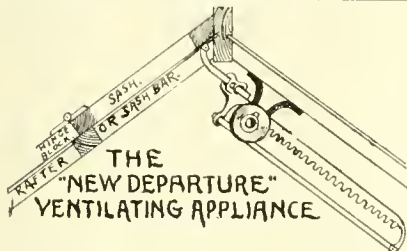
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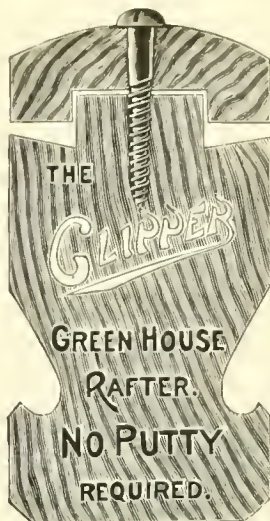
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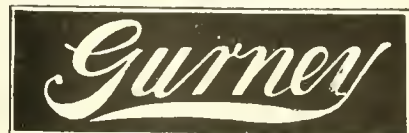
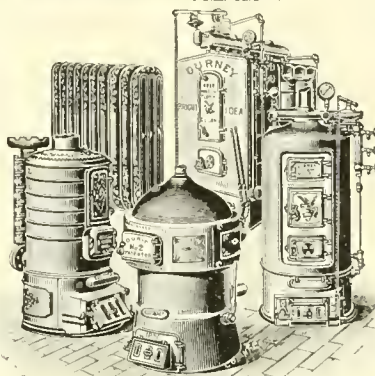


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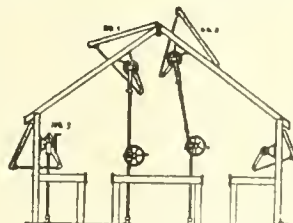
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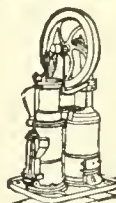


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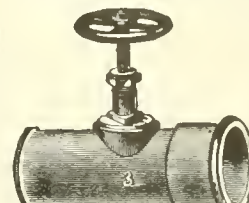
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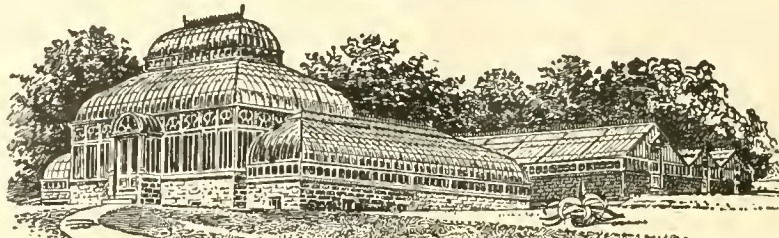
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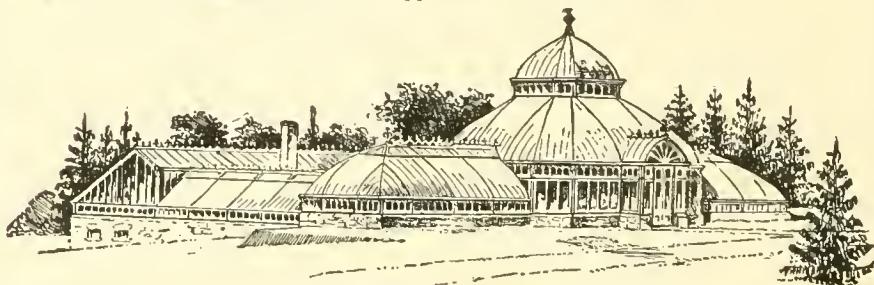
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Vol. XI.

CHICAGO AND NEW YORK, JUNE 20, 1896.

No. 420

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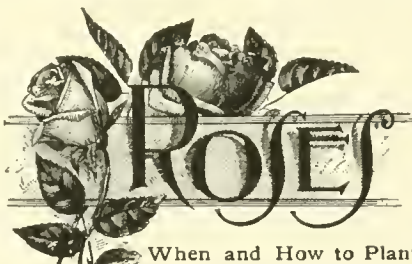
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Cleveland, O., vice-president; W. J. STEWART, Boston,
secretary; H. B. BEATTY, Oil City, Pa., treasurer.
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FUNGUS DISEASES OF ORNAMENTAL PLANTS, by Prof. Byron D. Halsted, come to us from the Mass. Hort. Society, whose transactions for 1895 it forms a part. It is an illustrated pamphlet of 24 pages, and ought to be in the hands of every florist. It clearly describes all the familiar fungus diseases, such as rust, spot, anthracnose, etc., and gives the best means for prevention or cure. Formulas of various fungicides are given, with suggestions for their application. Prof. Halsted is doing a very great work for the florist in his investigations, and has already given us great aid in combatting fungus ailments of plants.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.



When and How to Plant.

After a good deal of observation, as well as the figures at the end of the year, I am thoroughly satisfied that the time of planting a house of roses has a great deal to do with the size of the season's cut. A great many growers, especially the small ones, do not seem to be observant along this line, or else they fail to profit by past experiences; for we frequently see them planting in June or July for summer bloom, and as late as September or October for winter cutting, and though they admit that the returns from the house failed to cover the expense of fuel during the early winter months, yet they go ahead and repeat the experiment the following season. We have a set of rules which govern our actions in almost all the affairs of life, and some rule should be adopted by every rose grower large or small, as to the date for commencing and finishing the replanting of all the houses; and arrangements should be made ahead to have as much as possible of all other work out of the way, so that we can concentrate all our energies upon the one thing, and push it through to a conclusion as rapidly as possible.

I have occasionally seen a late planted house overtake another that had several weeks' start, but the rule is that late-planting is followed by late cutting, and light cutting, weak short stems, and very often inferior flowers until late spring, when we have too many flowers anyway. I think the more plants we can bench in June the better, but as there is considerable demand for cut bloom all through the month, owing to the closing of the schools and colleges we are reluctant to tear out too large a proportion of the old stock, but we generally have a house here and there that shows signs of giving out about the first of June, and it will be money in the pocket to replace such just as early as possible, and all planting should be finished up as early in July as the size of the plant and the help at our command will permit. Three weeks in July will be worth as much, as far as growth is concerned, as will six in October or November.

When there are several houses to be planted I am satisfied that it is not economy to take the regular greenhouse men to do the mixing at the compost-heap, the carting and wheeling of the soil, etc., and should not be done unless circumstances are such that no other course is

open; they are not accustomed to that kind of work, do not take kindly to it, and if it falls to them to do it their greenhouses are pretty certain to be neglected, and loss ensue. What I mean is that it will pay to hire extra laborers to do the rough work, and use the higher priced, skilled labor in its proper place.

Different places have adopted different methods of carrying in and out the greenhouse soil; some use hand barrows, which two men carry, but it is hard work and slow; others use flats carried by one man, each holding about three shovelful, you can get the house full in time this way but it is a very primitive method. Some houses are arranged with slides on the back or north side of the house through which the soil can be shoveled from the cart and distributed through the house, while a few very enterprising growers have laid miniature car tracks in the house and run in small cars holding about a cartload of soil. These methods all undoubtedly have their good points, but the plan I adopt wherever the houses and benches are adapted to it is the wheel-barrow; if the doors are wide and the benches not too high a house can be emptied and filled more rapidly and economically in this way than any other that I know of. At our place, if all goes well and the day is not too hot, four men with wheelbarrows and one to level off the soil, usually fill a house in from 9 to 10 hours, —size 20x275 feet. A house of this capacity would take five men at least two days if boxes or hand barrows were used.

We hear and read about houses being filled with soil in the forenoon, and the same set of men planting the roses out in the afternoon, but I must confess that I have never been able to finish up work so rapidly. Experience has shown me that young roses never start into growth satisfactorily or give as good results at any time if put out in very rough lumpy soil, and as it is almost impossible to thoroughly pulverize tough sod and fresh manure at the compost heap, unless the soil is very sandy (and in that case it is not fit for roses) I always turn over the soil and break it up by hand after it is in the benches, at the same time mixing in whatever commercial fertilizers are used. Mixing in this manner takes considerable time, probably quite as much as the work of bringing in the soil, but after all it always pays to take all the time that is necessary to do work right. Labor is the costliest item on a florist's place, but wisely directed it gives the largest returns.

As to the best fertilizers and how much should be used to secure the best results, depends altogether upon the character of the soil; some soils require very little bone, others can make use of large doses of it, the same with wood ashes, etc.; the only rational course to pursue is to experiment with different proportions, carefully note the result, and afterwards use the quantity

that experience shows to be the best. I am asked sometimes, what is the proper distance apart to plant roses. I have frequently seen them only 12 inches each way, but unless the soil is very poor, or the treatment faulty, this must prove entirely too close; we usually plant 15 inches each way and find that they get very much crowded, and this season we giving them about one-fifth more room.

It is unfortunate if at planting time we find we have not enough stock of each variety so that we can select only the strongest and best; no plant whose vigor and perfect health can be questioned should ever be planted out, and no matter how carefully we grow our stock we are pretty certain to find some of this class amongst them. I would again emphasize the importance of firm planting; by this is not meant pounding the soil until the ball of earth taken from the pot is squeezed and flattened all out of shape, but that a hole large and deep enough should be made and the plant carefully taken from the pot, the crocks taken out, placed in the hole and held there with one hand while with the other the loose fine soil is filled in, then made firm all round the plant, leaving a smooth even surface. A dry plant should never be set out, and it takes a good deal of watching to prevent it. Very often, it is too much trouble to get a watering pot, and it won't make any difference any way as long as the boss doesn't see. After planting, one good watering round each plant is preferable to watering the whole bench, first, because each plant is then certain to get enough, and further there is no use in keeping the whole mass of soil soaked while it contains no roots, better to hold it on the dry side and insure its keeping sweet as long as possible.

ROBT. SIMPSON.

A Rose Discussion.

Following is a synopsis of the discussion at the last meeting of the Chicago Florist Club, which was devoted to hardy roses, and at which were present a number of the nurserymen then in the city.

In response to a question as to experience with hardy roses in the east, after explaining that her observations dated some six years back, Mrs. E. T. Royle spoke as follows:

"We have had difficulty in the east with Magna Charta, the color not always being perfect. Anne de Diesbach did well in the open field. These plants were not watered, but cultivated so that moisture was held by a dust mulch. The greatest trouble was the prevalence of the rose or cherry bug. Some seasons, however, we were almost entirely free from it. Baroness did well, but was subject to mildew. Paul Neyron was another very satisfactory rose, and that, at the time I speak of, sold very well in the New York market. Flowers of course were cut before they were very far advanced, cut soon after 3 o'clock in the morning. We had very good transportation facilities, so they were in New York by 6 o'clock and were all sold before 8. I really believe in handling in that way a great deal more satisfaction is given to the florist than in the way which they seem to be handled here, lying in the commission house half the day. I also recollect Mabel Morrison was grown, but that like the Baroness was subject to mildew. When the flowers were good it sold well. Marie Baumann and Prince Camille were fine. The Jacq threw out big canes and there never was any trouble with it at all."

Mr. Harrison, of Storrs & Harrison, Painesville, O.: "The system of propagation that we follow mainly is out door propagation in the summer. We fix up our hot bed with enough compost to make the temperature right, then enough sand and insert the cuttings. We ordinarily use one bud, then they are potted out in small rose pots and put in the greenhouse, watered and shaded until they get somewhat established. We prepare a great many by budding in open ground. In that case we procure our Manetti from England or France. The cuttings are all handled in the house in the winter season. The cuttings are pruned by taking out every eye, then in the spring they are planted very shallow. I have a bed in my yard of these budded roses and I do not think there has been a Manetti sucker ever started. We think roses grown in this way are very much stronger than when grown on their own roots."

Mr. J. Van Lindley, Pomona, N. C.: "We have been growing our hardy roses out of doors in a cold frame made something like a hotbed, using manure, then about 4 inches of dirt and then about 4 inches of sand. We shelter it a little during the winter. We put the cuttings in about the last of November, keeping them in the greenhouse until about the first of May when they are put in the open ground. We grow them almost altogether on their own roots."

In response to a question Mr. Molloy, of Ellwanger & Barry, Rochester, N. Y., named the following as the best bedders in his experience: Mrs. John Laing, Marshall P. Wilder, Paul Neyron, Jacqueminot, Mme. Gabriel Luizet, Ulric Brunner, Baron de Bonstetten, Prince Camille and Earl of Dufferin. Some of these varieties are grown on their own roots. We also bud on Manetti stock.

In response to the question, "Why are hardy roses not successful around Chicago," Mr. E. Buettner replied: "They push out their flowers in a hurry and the season opens so late that when it does open it is summer. When roses are in bloom people will buy them." Referring to herbaceous plants he said: "We have grown herbaceous stuff for years. When the people see the flowers on the counter they want the growing plants, but it does not pay to grow plants to sell as a plant."

Mr. A. McAdams: "I think it is our own fault. As to roses I think the example seen at the Wooded Island has done more to encourage the trade than anything else ever could."

Mr. Molloy: "I think the collection of roses on the Wooded Island is one of the best possible advertisements for nurserymen all over the country. We have had numerous inquiries for roses that people have seen growing there."

Harlan P. Kelsey, Kawana, N. C.: "I am not a rose grower. My specialty is native American plants. There are a great many that the florists could use to advantage. Among native roses, for a low growing one the Rosa lucida perhaps is the best and for high work R. Carolina. There are several other varieties but these are the ones that are principally used. I grow entirely hardy plants. We are in the mountains 4,000 feet high. I have seen it 20° below zero twice and it often gets 10° to 15° below. There are numerous native plants the florists could use, such as the American heath and the mountain sand myrtle which is only found in the high mountains, and is one of the best evergreens we have. It is a low evergreen covering the ground. A good example can be found at Asheville

on the Vanderbilt estate, where the approach is covered with this for many hundred yards. In early spring it is covered by a dense mass of white bloom. If not already the largest, the Vanderbilt arboretum will soon be the largest in the world. The collection is supposed to be the finest in the world with the one exception of Kew, and it is Mr. Vanderbilt's desire to make it excel Kew."

Mr. Molloy: "A good single rose for cemetery work, though not an American rose, is the Rosa Wichuraiana. The single rose from Japan, Rosa rugosa, is beautiful in early spring and fall. In fall they present a brilliant sight with their brilliant seed pods. The foliage is magnificent, never being attacked by insects."

Mr. Kelsey: "I consider Wichuraiana the best rose for covering purposes there is. I saw at Dosoris the Wichuraiana trained over a trellis and it must have contained at least 5,000 blooms."

Black Aphis on Roses.

"Subscriber," St. Cloud, Minn., sends specimens of a bug as he terms it, that he has found on his Bridesmaid, Mermets, etc., and would like to know what it is and how to get rid of it. I am happy to tell him that he hasn't got anything very serious or very uncommon; if he had grown many chrysanthemums he would have become acquainted with the little gentleman long before this. The insect in question is the black aphid, or as it is generally called, black fly, and can be exterminated in the same manner as the green species, only his hide seems to be a little tougher, and he can stand more smoke and a stronger smell of tobacco before he succumbs. It is only occasionally that they are to be found upon tea roses, which undoubtedly accounts for "Subscriber's" failure to recognize him.

ROBT. SIMPSON.



Growing Specimen Chrysanthemum Plants

BY EMIL SCHRAY.

[Read before the St. Louis Florists' Club June 11.]

To grow good healthy plants we begin at the bottom, and that is with the cuttings. We always try to get the best and most healthy suckers, taking them from plants grown in pots, or on benches. The suckers are taken out with roots and planted in 2½-inch pots, and when well started the heads are taken off these and rooted in sand in a temperature of about 55°. When rooted they are planted in 2½ inch pots, shifting them from time to time to larger pots, never allowing them to get pot bound, as therein lies one of the secrets of growing good healthy exhibition plants. Plants are placed outside in spring as soon as the weather permits, the sooner the better, the place arranged so that they can be protected any time from severe weather.

Staking and training is attended to when the plants are yet quite young. Great care is taken never to get the plants overwatered; some varieties will



PALM HOUSE OF THE FAURIAN GARDEN
ST. PETERSBURG NOTES:

overcome it, but most of them will not, as they will get sickly, and often suffer from black spot. The black aphid, a very troublesome insect, is kept down as soon as it shows itself by using tobacco dust or tobacco extracts.

In potting pot firm, using good drainage; the soil used is good sod, mixed with one-third rotted manure, a little sand and bone meal in proportion of 1 to 40.

Following is a list of varieties grown and found to make good exhibition plants: Ivory, Minnie Wanemaker, L. Canning, Jos. H. White, W. H. Lincoln, Major Bonnafon, Clinton Chalfant, Inter Ocean, Mrs. Irving Clark, Vivian-Morel.

During the hot dry season plants are syringed twice a day, about 10 a. m. and 4 p. m., which takes the dust off the leaves, greatly benefiting the plants. Owing to an insect which stings the buds and causes the flowers to become misshapen, plants are housed as soon as there is the least sign of them showing buds. When in the house plenty of ventilation is kept on day and night, in cool weather putting on a little fire heat to take off the chill and to keep the flowers dry when in bloom. The plants are not transplanted any more after they show their buds, but are fed with liquid cow manure twice a week, changing off once in a while and giving them soot and char-

coal water, which keeps the plants healthy and gives leaves dark green color. Nitrate of soda has been tried as a fertilizer, but found no good, as it makes the plant grow too rank. Exhibition plants that are to be taken out to the show are kept as dry as possible three days before, as it has been found to harden them, and they keep in better condition throughout the show than if kept wet.

St. Petersburg Notes.

We present herewith engravings from three more St. Petersburg photographs.

The first gives a view in the Faurian conservatories, which supplies the greatest amount of material for the decoration of the various imperial palaces.

The second shows an aisle in one of the palm houses at the residence of General P. P. Durnowo, who has the finest private garden at the capital.

The third illustrates a basket of Eilers, which was included in the group shown in a previous issue. At the left is selaginella, the flowers being narcissus and yellow roses, in combination with dark green, yellow spotted croton leaves. The basket is covered with yellow silk ribbon. It would appear, though, that the narcissus flowers have been robbed of their stems and wires substituted therefor.

Miscellaneous Seasonable Hints.

I have been asked within a few days my advice on how to treat callas during the summer, and from Toledo comes the question, "The best way to make a smilax bed, what should the soil be composed of; what is the best temperature," and finally "how to build a first-class smilax house."

Callas that have bloomed or been growing all winter should have a rest, and that is easily done by laying them on their sides out of doors. About the middle of August shake off all the old soil and start them going again in 5, 6 or 7-inch pots, according to size of bulb. Plunge the pots in some material easy to handle, and before frost they will have made a short stout growth and flower early. If your object was to obtain a plant of great size, which for the commercial florist is not desirable, you could plant them out in rich soil, but they would be an unwieldy size by fall. If you started any little offshoot bulbs in the fall and have them now in 3-inch pots, shift them into a 5-inch and plunge out of doors and keep well watered during the summer, and they will make good strong plants by end of September. There has been little money in the calla for the past few years, principally because *Lilium Harrisii* and *L. longiflorum* are now so inexpensive, and cover all the season that the calla does.

The smilax story has been told many times in your columns. Now is the time to prepare for the bed, for the earlier it is planted in July the more profitable will it be. If you wanted smilax to make the strongest possible growth you would treat it like its edible cousin, the much relished asparagus, but you don't want that; when too vigorous it becomes bare of leaves at the bottom, and does not make a serviceable string. If the greenhouse floor is hard and dry make the bed on the surface; if it is wet make the bottom of plank raised 2 or 3 inches from the ground; six or seven inches of soil is enough for the bed. I have grown smilax in several different soils, and the poorest results were from a light sand. A heavy loam with one-fifth of cow manure will do finely. To be profitable smilax should never have less than a temperature of 60° at night, and as much as you like in the day time. In the great majority of plants the more heat applied the more tender and inclined to wilt will they be, but in smilax this is not the case. With it the more heat the harder it is, providing it is not cut prematurely.

As for "a first-class house for smilax." Most any other plant we grow might have some consideration as to shape and style of house, but smilax will grow in any house. The most unsuitable house would be a three-quarter span with the long span to the south, and neither do I believe in its being in a house that never gets a ray of sunshine. Simply if I were to erect a house for the especial growing of smilax it would run north and south with side walls of 5 feet and the house 20 feet wide. The paths would be three in number, one on each side of the house next the wall and one in the middle. This would leave two beds of 7 feet each, plenty wide enough for convenient working. From October to March smilax is all the better for a light house, but for the hot summer months a shade is not only desirable but necessary.

While on the subject of the asparagus it will be in place to speak of that most useful plant, *Asparagus plumosus nanus*, but where the "nanus" comes in I can't

see. A few years ago I planted a bed of the last mentioned; it was in 8 inches of good soil and the bottom of the bed was plank a few inches from the surface of the house. It grew grandly until about December, when it all turned a silvery light green. On consulting the greatest of eastern asparagus growers his advice was "Never divorce it from mother earth." Next year I lifted the same plants, placed them in a bed of 8 inches of good earth with the bottom mother earth, and have never been without some fine asparagus since. A specialist will supply you with 50 strings when you want it, but he that does a retail greenhouse trade should have a bed of *Asparagus plumosus*; it is not only the long strungs that are useful, but the short growths are always in demand. What can add grace and lightness to a bunch of roses or almost any flower more than a few sprays of asparagus? It does well in a temperature of 55° at night, rich soil and a solid bed. It is a cut and come again crop.

Those of you who are growing *Lilium auratum*, and what is worth more, *rubrum* and *album*, should have them in the coolest house you have with plenty of shade. Those who do not grow these lilies should do so for they fill up a gap when you have neither the calla nor are the true lilies, the *longiflorum*, etc., to be had.

Those who have grown any *pelargoniums* and have kept some for stock should as soon as they are done blooming keep them a little dryer than when they were flowering, and don't be later than the 15th of August in propagating them. Cut them within a few inches of the pot, and they will break out with buds where no buds were visible. I will endeavor to give later on some words of advice about *pelargoniums*.

It is late to give instructions about azaleas, but I know many, like the writer, will have kept his unsold azaleas in the houses up to this date. Shake off all the soil that is not occupied with roots and plant them out in a rich light soil with plenty of room between them, and where they can get plenty of water. When they are well settled in the ground mulch over the whole surface with 2 inches of spent hops or old hotbed manure; it will save lots of waterings. Don't be afraid to clip back any strong growths, and where a plant is not in the best of health clip it back hard. If you think this is rough treatment for the azalea remember how we receive them in the fall, dug out of the beds in Europe and in many cases a three week's journey before they are potted, and yet they come out all right. If the weather is dry and they are planted in a light soil where the water will pass off freely a good watering every week will do, but a good syringing should be given every evening.

There are several florists (and they are more than several, in fact they are in the majority) who forget to plant out a few plants of common things, which may not be of great value, yet you had better have them than go round asking your friends to give you a few cuttings of this and that. Plant out some few of everything for which we have a use, and above all, even if it is late plant out a big lot of the best geraniums. The flowers are useful to you in July and August, and geraniums can't be multiplied like weeds. There must be a good cutting or there can't be a good plant. If you have any hydrangeas left over in 6 or 7-inch pots cut them down to within 5 inches of the pot, shake off some of the soil and repot in suitable size pot and plunge out of doors, and they

will make big plants for next year.

If you have not yet planted out your young spring struck hydrangeas don't delay in putting them out in a rich piece of soil adjacent to the hose, for they like water till August comes, when they will take care of themselves.

Now a word about benches, it matters little whether you are growing roses, chrysanthemums or carnations, don't let your boards be too close together, and if you own the place and are not likely to sell inside of 6 years use 2-inch plank for all your benches. For roses there should not be a space of less than three-fourths inch between a 6-inch plank and for mums and carnations the same. An old bench is little benefited except with a washing off and thorough good white washing with slaked lime, but for new benches there is nothing like a heavy coat of water lime put on with a brush, about as thick as you can get it to spread. Don't take any rest till you see everything well attended to and don't neglect repairs till the fall, when you will be twice as busy as you are now. WM. SCOTT.



Carnation Notes.

The bulletin issued by the New York Experiment Station "Combating Carnation rust," by F. C. Stewart, contains very valuable information. His experiments are very painstaking and in many points conclusive. His recommendations are timely and to the point. This bulletin is in most parts the same as his valuable paper read before the New York carnation meeting, and what he said will appear in this bulletin, with a few additions of which I will say a few words.

In the paragraph "Some popular errors regarding rust," Mr. F. C. Stewart is very positive and decided in correcting some erroneous opinions entertained by many growers, especially as to the supposed spontaneous appearance of the rust, and is very positive the spread of this disease is effected only by the spores or seed, or infected cuttings and plants containing the mycelium, or as we may term it, the roots and runners of the rust plant. Mr. Stewart says, "Rust fungus consists of two portions: (1) a vegetative portion consisting of colorless threads (mycelium) which are found only on the interior of the plant; and (2) a reproductive portion composed of the brown spores found in the pustules just beneath the epidermis of the leaf. The spores are the 'seeds' of the fungus and not the fungus itself." Again he says "No carnation plant can become affected with rust unless it was propagated from a cutting containing the rust mycelium or else comes in contact with rust spores. The theory of spontaneous generation, once vigorously advocated, has been, during the present century, so completely exploded that it is no longer upheld by any scientist in good standing." Mr. Stewart's opinions are given very forcibly, but are nevertheless pertinent and true.

In another part of the same paragraph the author says: "Some florists believe that rust is localized in those parts of the plant where the pustules make their appearance. Upon this theory as a basis

they hope to eradicate the disease by the removal and destruction of the diseased leaves. While such practice is to be commended it can not, reasonably, be expected to effect a cure. The spread of the disease may be checked, but that is all. By the time the pustule appears the mycelium has already spread to the other parts of the plant." In reference to this it would be interesting to hear more of those who made experiments with the arsenic remedy.

Another paragraph, which I heartily endorse, is on controlling rust without the use of fungicides. Far from it that Mr. Stewart or myself would intend to cause a lack in the watchfulness and observation as regards spraying. Mr. Stewart only points out the importance of a careful culture, a culture that will assist the plant in its resistance against rust. Knowing that all the so-called remedies at the best will only effect a check and not entire cure, he advocates such a culture as mentioned the first step in combatting the rust. Here I am again confirmed in my advocacy of applying water only to the soil and not over the plants, to keep the foliage dry, as all fungus spores require water for their germination. Mr. Stewart says: "As far as the control of fungus diseases is concerned, sub-irrigation is the ideal system of watering carnations." I heartily endorse Mr. Stewart's views on carnation rust and commend his bulletin to every florist for a careful perusal.

Rains, moisture-laden air, heavy dews, are very beneficial for plant growth, but it is also beneficial for bacteriosis. Not that it is alarming; plants grow fine at present, but bacteriosis is so much more noticeable than when we have a dryer air, and I would not be surprised if it is not the same with rust. I especially attribute this to the heavy dews at night, rain will roll off the leaves, dew will stick better. Another hint how to treat plants under glass regarding watering.

I admonish again not to let the soil get baked at the surface. Break the crust whenever there is one formed, but be careful not to go any deeper than necessary to do so, that is to the depth from one to two inches; any deeper is rather injurious than beneficial. Roots can not take any hold in loose soil. We only want to break the crust to act the same as a mulch and keep the solid soil underneath from drying out, to keep it in as even a moist condition as possible.

FRED. DORNER.

Adiantum Farleyense.

R. S., Hillsdale, has a lot of *Adiantum Farleyense* that fail to make satisfactory growth. The leaves dry prematurely and have not right shape or color. The plants are growing in the same house with "soft stuff," whatever that may be, and are potted in a mixture of moss compost, broken crocks and sand. This is a little out of my line, and probably the question came to me by mistake, but I will answer R. S. to the best of my ability. In the first place *Farleyense* will not grow under the same conditions as geraniums, heliotrope, etc.; it is a hothouse fern, and to have it do its best must have stove treatment. It should have a night temperature during winter of 75° to 70°, and ten degrees higher during the day, and a correspondingly high temperature during the summer. An abundance of atmospheric moisture is necessary, but the dampness must not settle on the foliage; to prevent this a little steam heat overhead is very helpful. Cool draughts of air striking the plants generally prove



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very injurious, but the air nevertheless must be fresh and pure; a damp stagnant atmosphere is the worst thing imaginable. The drying up of the young fronds may be caused by the uncongenial atmosphere and surroundings, but is more likely the result of poor root action. Ferns will often continue to throw fronds without any corresponding activity at the root, but such fronds generally shrivel before they are fully developed. While Farleyense is in a small state the soil may be lightened by mixing one-third peat with two-thirds loam and good sprinkling of sand, but as soon as the plant is large enough for a 4-inch pot the compost may be two-thirds good fibrous loam and one-third well rotted cow manure, with a good sprinkling of sand and coarse bone meal, the whole having laid for at least six months to become well decomposed. This is one of the ferns that once stunted seldom makes a good plant; the secret of having fine clean stock is to have fresh vigorous young plants to start with, and with the right treatment they will grow as well as some of the more common kinds. I would advise R. S. to pick his old plants to pieces, and start them up again from single eyes or crowns; put into pots or pans in sand and peat in equal parts, close together like cuttings, and kept in a close frame well shaded;

they will soon start into growth, and should then have a little ventilation, and soon as large enough be potted into very small pots, kept close to the glass in a warm close house, repotted as they need it, and there will soon be a good foundation for a batch of strong healthy plants.

ROBT. SIMPSON.

Uneven Temperature.

I have charge of a set of greenhouses that are built east and west, a shed at both east and west ends. Boiler (hot water) at east end. Houses have a fall of about 8 or 10 inches toward the east. The west end of houses is from 15° to 18° warmer than the east end. The pipes heat all right, but the west end, the end farthest from boilers, is in cold weather always that much warmer. How can I make temperature more even?

Buffalo, N. Y.

S. F.

With houses built as those described by S. F., it is somewhat difficult to maintain an even temperature on all parts of them alike, as the heated air will always draw to the highest point, and particularly when the wind is in the opposite direction. S. F. can somewhat modify these extremes by reducing the number of pipes at the warmest end and increasing in the same proportion at the coolest end.

If the houses have say eight pipes, I should advise reducing them to seven for one-third the length of the house, and add this to the other end in the same proportion. This would make nine pipes at the coolest for one-third the length of the houses, eight pipes for the center one-third, and seven for the warm ends. By such an arrangement of the piping, the temperature can be maintained in ordinary weather within three or four degrees equally all through the houses; though when the wind is in certain quarters it may be necessary to lift the ventilator at the warm end a trifle to keep it equal.

To change the piping as suggested would only require three Y branches and three slip collars or sleeves as they are usually called by hot water fitters, and certainly ought not to be a very expensive job. I should consider that the difference in the value of the product would more than double its cost in one month in severe weather when firing hard, as that is always the most trying time for houses so constructed.

If from any cause it is not practicable to make the changes above suggested, then a covering of fine soil or sand over a portion of the pipes at the warm end will be of considerable benefit in keeping down the extra heat, but this is always an unsatisfactory method and makes an untidy looking ridge or ridges of soil in the houses, and after a little while if not kept in shape, will sink away from the pipes and allow the heat to escape nearly as readily as from the uncovered pipes. In addition to these facts, you are continually burning coal to heat considerable surface to waste, without getting all the benefit that the first suggestion would give. Of course you could also cure the trouble to a great extent by covering some portion of the pipes at the warm end with asbestos, but this would cost as much as changing the pipes and not be as satisfactory.

JOHN N. MAY.

New York.

The windows of the leading up town stores display at present mainly vases of such cut bloom as sweet peas, centaureas and coreopsis, while on the Greek's sidewalk stands American Beauties, Jacqs and Brides occupy the chief space. Very light are the rose purchases made by the fashionable classes of buyers just now, and the agents of the stores buy in like manner at the wholesale establishments these summer mornings. The quality of the buds offered is inferior as a rule, and further the fashionable customer cares less for roses in the month of roses than at any other time. This peculiarity of the fashionable customer deserves passing notice, but is hardly worth the trouble of analyzing.

It is just now, however, that the average rose grower begins to loathe the sight of his old bushes and after an experience of such conditions as prevailed during the first half of June the conclusion to toss them out is easily arrived at so, whisk! out they go, and the young stock for next season is quickly installed in their places. So the past few days have witnessed a remarkable shortening up in the receipts of roses, some shippers having stopped off entirely and others sending dozens where but recently they sent thousands, and there is every probability of good stiff prices on these few, provided the quality is all right, till the end of June at least.

The carnation growers seem loth to part with their old charges and are holding out a little longer than the rose men, although they claim vigorously that \$5

per thousand, which is about outside price realized for good long-stemmed stock, does not pay expense of caring for and marketing. Lily of the valley is really the choicest flower obtainable at present and there is a fair call for a moderate quantity, but buyers seem unwilling to pay prices of former years.

The trustees of the New York Florists' Club met on Saturday last and had a lengthy conference on the matter of the proposed fall show. In accordance with the proposition made by the club they voted to increase their number as a committee by the addition of the following gentlemen: P. O'Mara, A. S. Burns, J. W. Withers, Wm. Plumb, W. A. Manda, Jas. I. Donlan and Henry McCrowe. Another meeting is called for Monday, June 22.

Secretary John Young has just received the medal and three diplomas won by the New York Florists' Club at the World's Columbian Exposition. They are all beautifully gotten up.

Plant auction sales are about finished for the season. Rolker will have a palm sale for the Philadelphia brethren on next Monday, and a combination orchid sale for Siebrecht & Wadley and Pitcher & Manda on the following Thursday, which will about conclude the season with him.

The friends of Robert B. Young will be sorry to learn that he has had a return of his old rheumatic trouble and has been quite sick for some time at his home in Asbury Park.

L. C. Bobbink sailed for Europe for a month's stay, on the 18th inst. per steamer Werkendam. Julius Rochrs goes one week later on the Fuerst Bismarck.

"Pat," well known to frequenters of the auction sales for many years has been doing a good business on his own account selling roses and other nursery stock at a sidewalk stand on Greenwich street.

Boston.

Saturday, June 13, was prize day at Horticultural Hall for herbaceous peonies, aquilegias, oriental poppies and foxgloves. The display of peonies excelled anything ever done before in this line, the collection of T. C. Thurlow, which received first prize, consisting of no less than seventy named varieties, and those from Dr. C. G. Weld, George Hollis, J. S. Fay and others being proportionately extensive, and the blooms of exceptional quality. In George Hollis's collection were included a large number of seedlings. Aquilegias were represented by a number of interesting exhibits, but on poppies and foxgloves there was only one entry each. Carl Blomberg, gardener to Oakes Ames, showed two tanks of hardy nymphaeas and a large display of cut flowers in variety, and James Comley staged a fine exhibit of rhododendrons, kalumias, roses, etc. Hardy perennials from Rea Bros. and shrubs from J. S. Fay were also among the attractions. The most interesting feature was a group of seedling roses shown by Jackson Dawson, consisting of hybrids of Rosa Wichuraiana × Gen'l Jacqueminot and of Rosa multiflora with several other varieties, for which Mr. Dawson was awarded two silver medals. He also received honorable mention for a pretty seedling rose from Boston Belle. There were a good many fine strawberries on exhibition, the Marshall leading as usual in size and attractiveness.

The annual rose and strawberry exhibition of the Massachusetts Horticultural Society will open at noon on June 23 and close at 9 p. m., June 24. If present conditions continue we shall see an exhibi-

tion excelling anything shown for some years past. Frequent rains and much damp foggy weather have given the roses just the right start and the bushes are everywhere in splendid condition.

Ladies' night at the Gardeners' and Florists' Club will occur on Monday evening, June 29, at Horticultural Hall. Music, recitations and refreshments will be provided and the advance sale of tickets indicates that this occasion will be a repetition of the great success of last year and the attendance much larger.

Childrens' Sunday was very generally observed by the churches here on June 14. Considerable decorating was done, but mostly with wild or home garden flowers and an enormous number of potted plants were donated to the little ones.

The New England Florist Co. opened their new quarters at 130 State Street to the inspection of visitors on Saturday, June 13. Refreshments were served and many interested callers were pleasantly entertained and shown over the establishment, which is well furnished and equipped for a printing and publishing business.

The cut flower trade is quiet on all sides and flowers are plenty, especially astilbe and carnations. There are more carnations than the market can possibly consume even at the low price of fifty cents per hundred for long-stemmed blooms. School graduations are now in view, however, and should make quite an inroad on stock coming in. Out door roses are beginning to appear and the quality is better than usual.

Auction sales of plants at N. F. McCarthy & Co.'s have been remarkable successful this season. Even at this late date the sales are well attended and prices are unprecedentedly high, as a rule.

On June 10 Miss Grace M., daughter of H. L. White, Grandview avenue, Somerville, was married to Mr. E. L. Davis.

Cards were received by about a score of the Boston fraternity bearing the pleasing announcement that on Tuesday, June 16, Mr. Jos. Fuller would give an "asparagus party" at his farm in Leominster, to which they were cordially invited. Joe is not only the biggest asparagus grower in the state and the largest florist in his section, but is well known as a jolly companion and generous entertainer, so his invitation was promptly accepted, and June 16 has passed into history as the greatest success on record in the long list of good times enjoyed by the Boston florists. The table was spread under the trees in a pleasant grove, and the ladies of Mr. Fuller's household helped to do the honors, and added greatly to the pleasure of the occasion. After a big feast had been enjoyed by the visitors a call was made for volunteers to wait on the ladies at table, and no funnier sight could be imagined than that presented by such worthies as Ed. Hatch, P. Welch, M. H. Norton, Judge Hoitt and George Sutherland in waiters' aprons. Eljah Wood kept the musical department in order and two pretended colored gentlemen made no end of fun. Messrs. Cox and Edgar presided over a game of "seven-up" on an ingeniously constructed table composed of old bushel boxes, but only for a brief period, for their companions made a sudden onslaught which wrecked completely both game and players. Cheers for Mr. Fuller and the ladies and hearty approval of the manner in which the affair was carried out filled the air as the party at last said good-bye and started on the fifty-mile trip home, all agreeing that they had had the best outing on record. In addition to the Boston delegation

there were present Messrs. Orpet and Meredith from Lancaster, and Mr. Huebner from Groton.

Philadelphia.

The cool weather of the past few days has made flowers, particularly good roses, scarce, and it took considerable hustling on the part of the dealers to get enough stock for their orders. Weddings, funerals and school commencements have been quite frequent the past week, and although for the latter events there has not been as much demand as formerly what there was created quite a little stir, and was very welcome. Prices of stock are about the same as last week, but the quality is not quite so good, as considerable mildew has to go with the roses. Candidum lilies are in from outside and sell for about \$2 per hundred flowers and buds.

Mr. Lukens of Burlington is cutting some fine valley; his is generally good, the other fellows should endeavor to get a leaf out of his book. Robert Craig is about cut out of longiflorums; he had a fine batch of these and sold them all, a few are still coming on for a later crop in a frame outside.

The June meeting of the Penna. Horticultural Society was held last Tuesday evening. A fairly good audience was present to hear Dr. Robert Huey, an enthusiastic amateur grower of roses, read a paper on outside rose growing. It was a very interesting account of his experience with a great variety of roses and was declared to be one of the best papers ever read before the society. The doctor is a great advocate of budded stock, which he finds grows stronger and blooms better than plants of the same varieties on their own roots. He says that failures with budded stock come chiefly from the fact that they are not planted deep enough, the budded portion should be planted at least three inches below the surface and when this is done but very few suckers will appear. Among the best hardy teas he mentioned the Mme. Testout as being most satisfactory. Remarks were made by Messrs. Thilow, Scott, and Bearn, and the thanks of the society tendered to the doctor for his very able paper.

Arrangements were made to hold the first annual exhibition of the American Dahlia Society in connection with the September meeting of the society and a paper will then be read on the history of this interesting flower. The schedule of the Dahlia Society for this exhibition is now ready and can be had on application to the secretary, J. G. Peacock, Atco, N. J.

There is quite a little building going on in this neighborhood and various other additions are hinted at, among them an operation that will cover something like an acre of ground.

J. W. Young of Germantown sailed for Europe, June 8th, for a trip of pleasure and to take a well-earned rest.

W. Hagemann of this city and Wm. F. Gude of Washington left for Europe last Saturday, to be gone for two months.

Eugene Dailledouze was in town last Wednesday. K.

Chicago.

The Illinois Central tracks are being rapidly lowered, and the work of filling in for the new Lake Front Park is progressing in a very satisfactory manner. Though a stupendous work, which will require years for its completion, there now remains no doubt of its ultimate result.



BASKET.
ST. PETERSBURG NOTES:

Superintendent Kanst has planted some 80,000 trees and shrubs at Jackson Park this spring, and all are doing well.

At the annual dinner of the Board of Underwriters of this city, held at Kinsley's this week, very attractive decorations were arranged by Joseph Curran. On the speaker's table the arrangement was red, white and blue, as a compliment to the many New Englanders present, it being Bunker Hill day. The flowers were Portia carnations, swainsona and cornflowers. Cornflowers in various colors were freely used on all the tables, and the result was extremely pleasing.

Business moves along much as it did last week. Roses are not quite so scarce as they were, but there are none too many of the good flowers. Small, hard, off-colored flowers, with weak and mildewed foliage, are of course coming in, but no one wants them; it requires lots of picking over to fill an order for good flowers. Prices keep good; \$4 to \$5 for select stock, first quality Beauties \$2.50 a dozen. Some of the school commencements used up a good many roses, particularly that of Dearborn Seminary, which called especially for Beauties. Good carnations are in demand, the best selling for \$1 and \$1.25. Funeral trade is quite brisk, and there are a good many out of town weddings that keep the shipping trade moving. Valley is still scarce, and holds at \$5.

Outdoor stock is very plentiful. There is an abundance of outdoor candidum lilies, which go very slowly at \$2 to \$3 per hundred. Gypsophila paniculata sells very quickly at 25 cents a bunch; it gives a charming airy effect to made-up work. Coreopsis is plentiful, and very cheap. A few stocks are seen, but they will not sell, being mostly colored; the white would go for funeral work. Sweet peas have appeared from outside; they are down to 25 cents a hundred. Pond lilies, wild rudbeckias and feverfew are plentiful. Mr. Klehm is still cutting peonies. Outdoor shrubs made little impression on the market this year; they were so soon past.

Mr. W. Atlee Burpee of Philadelphia

passed through Chicago this week on his way east from the Pacific coast.

Visiting Chicago: Mr. Thos. B. Meehan, Germantown, Pa.; J. E. Killen, representing C. H. Jooston, New York.

St. Louis.

The regular meeting of the St. Louis Florists' Club was held Thursday afternoon, June 11, with President Fillmore in the chair. The attendance was small and not much of importance was transacted. The committee on chrysanthemum shows reported everything progressing favorably. The essay of Emil Schray on how to grow specimen chrysanthemum plants for exhibition was well received. The meeting then adjourned; the next meeting calls for nomination of officers, and will be held on Thursday, July 9, at 3 p. m.

Business about town is better than it has been, and flower are not over plentiful; this being the week of the republican convention is making things lively for the down-town florists. Asters have made their appearance and sell at \$1 per 100. Roses are looking a little better than they have been and sell at from \$3 to \$4, some extra go at \$5. Carnations are small and bring \$1 and \$1.50. Sweet peas are very plentiful and the price is still 25 cents per 100. Cornflowers are 25 cents per 100 all colors.

A great many of the florists called on chairman Kunz of the picnic committee and asked him not to postpone the picnic, but let's have one, and Mr. Kunz reports that he will call the committee together next Monday night at the Bowling Club and see what can be done in regard to a outing. If interest enough is shown we will have a picnic the second week of July.

Visitors in town this week were George A. Kuhl, Pekin, Ill.; George Kellogg, Pleasant Hill, Mo.; J. Heintz, Jacksonville, Ill.; C. J. Ford, Philadelphia; J. W. T. Deake of the Idlewild Floral Co., the original Santa Claus of North Carolina.

The bowlers bowled again Monday night and some good scores were made, Fred Weber rolled high for 3 games, 634, and Emil Schray was second with 522,

John Kunz third, 511. Fred Weber was also high on single score, 229, and Emil Schray was second with 198. Next Monday night we expect a better attendance as the spring planting is past and some of the old faces will show up again. J. J. B.

Cleveland.

Business has of late been rather quiet in that part of it outside of the plant department. Stock has been coming in in moderate quantities and fair quality for the time of year, but there has been no special demand for it heretofore, although the usual crop of spring weddings has very lately lived things slightly. At two of these the floral decorations were very elaborate and were spoken of in the local press as being the finest from the floral display standpoint of any ever seen here. They were by J. M. Gasser.

A trip through various local establishments finds matters much as usual after the rush of the bedding out season. Most florists report no very material difference from other years either in the quantity or variety of stock disposed of. A few say that there has been a slight increase, but nothing very material on the whole. There seems to be some little stock left with some growers, but no one very large amounts and of no one kind in particular. Cannas seem to have been used somewhat more largely than heretofore, and are probably the only plants that have shown any very marked increase over other years. In prices there does not seem to be much difference from other years. Geraniums sold generally for about a dollar a dozen—the ruling price for years—although a few parties with more geraniums than sense showed a disposition to give charity to the public that in some cases at least was more necessary for themselves, by selling at prices varying from seventy-five to ninety cents per dozen, "if you bring back the pots." If at one dollar per dozen the florist clears ten or fifteen cents, what per cent of profit does he make at seventy-five cents per dozen?

The committee on flower show at the convention next August held a meeting last Monday and appointed a committee to look after subscriptions for the premium list. It is hoped and believed that a very satisfactory showing can be made in this line. The committee is to report at the next regular meeting, at which time a large attendance is expected to hear the report and discuss the same.

A.

Northampton, Mass.

The annual June rose and strawberry show of the Northampton Horticultural Society was held on the afternoon and evening of June 10 and 11. The berries suffered from the heavy rains of the two preceding days, but the display of roses far excelled any of the society's previous efforts. There were many collections of cannas, gloxinias, begonias and other seasonable flowers, and palms and other decorative plants were contributed liberally by Florists Parks, Merwin, Allen and H. W. Field and Mary S. Mann of Florence.

MALDEN, MASS.—E. A. Kelley is preparing to erect an office and salesroom 25x64.

WILMINGTON, DEL.—It is claimed by Mr. Edward Tatnall, the distinguished botanist, that about one-half of all the native plants described in Gray's Botany of the Northern United States are to be found in New Castle County, Del.

Rochester, N. Y.

Excepting on one rainy day in the past week the flower stores had no reason to complain; the demand was good in every line, and the sales compared most favorably with the week before. Ever since June 1 weddings, lawn and tent receptions are of daily occurrence, and while many of these parties may not call for the most expensive flowers and elaborate decorations, there is always the few who have the desire to excel their friends or neighbors in these decorations, and consequently buy more lavishly from their florist. Marriages occurring so very frequently this month, our commission man has cards up in his store announcing that he is prepared to furnish to florists on shortest notice unlimited quantities of Brides and Bridesmaids of all grades for June weddings, but whether this announcement had any effects on the prospective bridegrooms I am unable to say. Roses of all colors were in brisk demand. The cleanest stock in our market comes from Oil City at present. Carnations and sweet peas are very plentiful; the latter do not sell at a very high figure; a few days more and outdoor grown stock will be in around here. Valley is very scarce just now, also smilax and asparagus. The outdoor roses are very fine this year, and their foliage is not so badly disfigured and eaten by slugs and bugs as at other times.

Mr. D. B. Long of Buffalo was in town last week taking orders for Harrisii lilies and other stock.

We have to record the marriage of William Lewis Keller to Miss Helen B. Rauber, late of this city, on the 11th inst. After the ceremonies in church a grand reception and entertainment was given at the home of the bride's parents. The house was most profusely decorated with asparagus, smilax and plants. The mantels and fireplaces were banked with flowers and greenery; only Brides, Mermaids and Bridesmaid roses with adiantums were used here, while orchids formed the principal material used in the table decorations. The lawn, on which a large tent had been erected for the occasion, was handsomely adorned with large palms and bay trees, etc. Miss Lulu Keller, the daughter of J. M. Keller of Bay Ridge, L. I., acted as maid of honor, and performed her various duties to the admiration of all concerned. The groom is the youngest son of J. B. Keller and also the youngest member of the firm J. B. Keller Sons. He has left for a prolonged trip east and south, setting no date for his return, which action is much regretted by the boys, for they had arranged for a surprise of a rather pleasant nature on his arrival home.

J. B. K.

Milwaukee.

Spring trade to this writing has been a very satisfactory one to the florists here. The sale of bedding stock has surpassed any previous spring. June trade so far has been quite brisk, owing chiefly to the numerous weddings in and out of town, and also for commencement exercises. Stock is fairly plentiful, but most of it is poor and unsalable, leaving a shortage of good stock, which commands good prices. N. Zwiefel is cutting some exceptionally fine carnations, and H. Von Oven is doing likewise, and also some fine Beauties.

Bids were opened for the city park last week, and Archie Middlemass was most successful, he receiving the bulk of the

work. John Dunlop also came in for a share of it.

The Florists' Club is already beginning to advertise the fall chrysanthemum show, all members using envelopes upon which the date, etc., of the show is advertised. This is a good and direct way of reaching flower lovers, and is inexpensive.

Recent visitors: Louis Hartung, Two Rivers, Wis.; John Baustead, Racine, Wis.; O. Sylvester, Oconomowoc, Wis.

INCOG.

LANCASTER, PA.—Mr. Franklin Kohr, a prominent carnation grower of Lancaster, was married, June 10th, to Miss Barbara A. Harnish.

PROVIDENCE, R. I.—T. O'Connor has purchased a large estate on Blackstone Boulevard and is now moving his establishment from Hope Street to the new location. Considerable new glass is to be added and when completed it will be one of the finest ranges of greenhouses in the State.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads not admitted under this head.

SITUATION WANTED—By experienced florist and gardener; thoroughly competent. References. GARDENER, care American Florist.

SITUATION WANTED—As maker-up and decorator; 20 years experience. Good references. Age 35. JOHN CRAWFORD, 35 N. 16th St., Phila., Pa.

SITUATION WANTED—By florist; 12 years' experience in general work. As manager. German; single. B. SCHILLER, 345 Lake Ave., Chicago.

SITUATION WANTED—By good all round man; German; 9 years' experience. First-class references. Address: R. HINZ, Lancaster, Kan.

SITUATION WANTED—By an all round florist as foreman in a commercial place in growing roses, carnations and general stock; also palms, ferns, etc. Address: C. H., care American Florist.

SITUATION WANTED—By a young German, age 23, with 5 years' experience in general greenhouse work; can furnish best of references; southern states preferred. Address: E. BLUM, Collingdale P. O., Del. Co., Pa.

SITUATION WANTED—In commercial or private place, by competent florist. Specialist in roses and 'mums. 14 years' experience; 4 years in the south; age 32, single. Address: SOUTHERN FLORIST, care Am. Florist.

SITUATION WANTED—As foreman, manager or partner; experienced grower of roses, carnations, violets, etc.; 17 years' practical work; thoroughly understands the business; married; age 32; A1 references to responsible parties. Address: OHIO, care American Florist, Chicago.

WANTED—Good rose grower. Address at once: REINBERG BROS., 51 Wabash Ave., Chicago.

WANTED—Greenhouses in good condition, to work on shares. Address: C. G., care American Florist, Chicago.

WANTED—50 feet of second hand cast 4-inch greenhouse pipe, weighing from 10 to 12 pounds per foot; also tees and other fittings for a large house. Address: CASH, Box 463, Topeka, Kansas.

WANTED—The address of Paul Prudat; when last heard of he was working at Illinois School of Agriculture, Glenwood, Ill. Important news. Address: ERNEST H. SMITH, Box 1001, Macomb, Ill.

WANTED—A strong, steady greenhouse assistant. Must have learned the trade. References required. State wages expected. Very permanent place. Address: DR. J. S. HINNERSHOTS, Reading, Pa.

WANTED—A thoroughly experienced grower for cut flowers and plants; must be sober and industrious and not afraid of work; about 25 000 square feet of glass. Give experience and references. State wages expected. Steady employment. Address: C. HANSEN, Dale St. & Como Ave., St. Paul, Minn.

FOR SALE—At half price three greenhouses, stock, boiler, pipes and everything belonging to it, if applied for soon. Address: W. S. P., care American Florist.

FOR SALE—Four greenhouse: two 11x75, one 19x75, one 22x75, and two lots 100 feet front, 124 feet deep, and a good stable. The houses are heated with hot water. Address: R. I., care Am. Florist.

FOR SALE CHEAP—Extra good second-hand 3-inch boiler tubes, 12 feet long, with collars for packing. They take the place of cast iron pipe for hot water at less than half the price. Address: W. H. SALTER, Rochester, N. Y.

FOR SALE—Cottage house 6 rooms, first-class, about two acres prime land in lively town of 2 500 inhabitants, on Monon railroad, with barn and outbuildings, one greenhouse 16x50 feet; all new. For information address B. F. FERGUSON & WILSON, Rensselaer, Ind.

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FOR SALE CHEAP—Whole or half interest in a first-class florist establishment, an area of 10 000 sq. ft. of land, with one new greenhouse and hotbeds, also dwelling with barn, in a city of 8 000 to 10 000 inhabitants. Land lies between two streets. Answers received in German, Norwegian or English. For further particulars address: CHR. MARSEN, 1236 Sixth St., Beloit, Wis.

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LATANIA BORBONICA, 5 to 6 feet, 6 to 8 leaves, \$3.50, \$4 and \$5 each.
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The above prices are 25 per cent. less than regular trade prices.

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CLEMATIS.

Two years, all large flowering, choice
 named, leading kinds . . . \$2.50 \$30 00
 Strong, heavy plants . . . 35c each, 4.00 30 00
 11, P. Roses, 2 years, 4-inch pots . . . 1.50 10 00
 Clematis Jackmanni, nice young plants
 for potting or planting up for fall sales 1.00 8 00
 Daisies dbl. Eng. Snowcrest, Snowflake .50 1 00

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All Chamaerops, Phoenix and many others
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 grandest combination of colors ever sent out.

The largest flowering.

The strongest growing,
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 Very finest mixed:

Pkt. of 2500 seeds, \$1.00; ½ oz. \$3.00; 1 oz. \$6.00;
 3 ozs. \$15.00. White and yellow in separate pkts.,
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No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
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No reduction made for large space.

The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
wares pertaining to those lines ONLY. Please to
remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to se-
cure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

OBITUARY.

LOUIS SCIPION COCHET.

Monsieur Louis Scipion Cochet, the
well known rosarian of Suisnes, France,
died at his home there May 27, aged 63.
He was vice-president of the Societe d'
Horticulture de Melun et Fontainebleau,
and of the Section des Roses de Paris, and
a chevalier of the Portuguese Order of
Christ and Ordre de Melusine. M. Cochet,
who was editor of the *Journal des Roses*,
contributed freely to our rose literature,
being, in common with several other
members of his family, greatly interested
in the advancement of this flower. He
leaves a widow and family.

AUGUST ROLKER.

August Rolker, the senior member of
the firm of A. & F. Rolker, New York,
died on June 17, of inflammation of the
heart, aged 52 years. Mr. Rolker was
born in Brooklyn. His father, the late
August Rolker, Sr., established the firm
of August Rolker & Sons, of which de-
ceased was a member until one year ago
last January, when he retired and went
into the plant auction business with his
son, Fred, buying out the interest in the
establishment formerly conducted by
Robt. B. Young. August Rolker & Sons
were originally engaged in a general com-
mission business, but in 1872 they took
up the florist supply business, in which
they were the pioneers, and by their enter-
prize and industry soon made themselves
well known among the florists all over
the country. August Rolker's first great
misfortune was the death of his son, three
years ago, and from that time his health
began steadily to fail. Trips to Cuba
and to Italy were undertaken, but with
no benefit and now the end has come.
Mr. Rolker was a man who was gener-
ally liked and highly respected for his
integrity and old-fashioned upright busi-
ness methods, and his death at the me-
ridian of life is a deplorable event. He
leaves a widow, two sons and one
daughter.

Cincinnati.

The situation in the cutflower market
remains about the same as last week,
stock is rather plentiful and prices low.
Some choice sweet peas are coming in
which wholesale at 25 cents per 100.
Roses sell from 2 to 4 per 100 and carna-
tions from 75 cents to 1.50 per 100. The
flower market on Saturday was very
dull—very few plants were disposed of.
The only thing that could be seen to move
was cannas. One of our growers had a
large sign in his lot of cannas which read
"10 cents each." They were nice and well
grown plants in 4 and 5-inch pots mostly
all in bloom and choice varieties, such as

Mme. Crozy, A. Bouvier, Secretary Stew-
art and others equally as good. At these
figures the lot went off as you may term
it "like hot cakes."

Visiting in town: Mr. Chas. Peters of
Huntington, W. Va., formerly of this city.
H. SCHWARZ.

The Single Pipe System.

In reply to "Subscriber's" inquiry
about single pipe system of heating, I
have nothing new to add to previous
notes. I find everything works all right
under low pressure.

Subscriber inquires about how low top
of boiler must be below greenhouse level.
It doesn't matter where the top of boiler
is so that returns come in at or near
bottom and that that be the lowest point
for all condensed water to return to
boiler. This presupposes that the flows
are tapped at bottom soon after leaving
boiler for above purpose.

I use no check valves and see no use for
them if boiler and pipes are set right. If
subscriber will look up illustrated article
in AMERICAN FLORIST some two years
ago I think the plan will be made clear to
him, or if he will write me I will try to
explain the system as I understand it.
Champaign, Ill. THOS. FRANKS.

HARTFORD, CONN.—The June exhibition
of roses under the auspices of the Con-
necticut Horticultural Society opened on
June 10 at Keney Hall.

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IT.

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FINE STOCK
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Palms, Ferns and Growers' Stock.

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AND COMMISSION.

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CUT FLOWER CO.,**

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Handling flowers of all kinds in quantity
we are in a position to fill shipping orders
promptly. We shall give careful attention
to this branch of the business, and solicit
your patronage.

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Cut Strings, 8 to 10 feet long,

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Wholesale Florist**

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 Our Roses best them all, in quality.
 Headquarters for fine American Beauties.

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 Wire Designs a Specialty.
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 Consignments solicited. Prompt attention to all orders.

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 READY JUNE 8th, at \$1.60 per 1000.
 Strong stocky plants, lightly packed. Satisfaction guaranteed. Low prices on large lots.
G. VAN BOCHOVE & BRO.,
 KALAMAZOO, MICH.

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Cut Flowers.

NEW YORK, June 16.	
Roses, Beauty.....	1.00@15.00
" all other varieties.....	.50@ 4.00
Carnations, ordinary.....	.25@ .50
" fancy.....	.50@ 1.00
Sweet peas per 100 bunches.....	1.50@ 3.00
Valley.....	2.00@ 4.00
Harrisell.....	4.00@ 6.00
Mignonette.....	.50@ 1.00
Adiantum.....	.75 @ 1.00
Asparagus.....	.50.00
Smilax.....	.12.00@15.00

BOSTON, June 16.	
Roses, Gontier, Niphotos.....	1.00@ 2.00
" Perle, Mermel.....	2.00@ 3.00
" Bride, Bridesmaid, Meteor.....	2.00@ 4.00
" Beauty.....	5.00@15.00
Jacqs (outdoor).....	.50@ 2.00
Carnations.....	.25@ .50
" fancy.....	.50 @ 1.00
Valley.....	4.00
Longiflorum.....	6.00@10.00
Mignonette.....	.50@ 1.00
Sweet peas.....	.25@ .50
Adiantum.....	1.00
Smilax.....	.15.00@20.00
Asparagus.....	.50.00

PHILADELPHIA June 16	
Roses Beauties long.....	10.00@16.00
" medium.....	8.00@15.00
" short.....	2.00@ 5.00
" Brides, Bridesmaid, La France etc.....	2.00@ 4.00
" Kaiserin.....	3.00@ 4.00
" small teas.....	1.00@ 2.00
Carnations, fancy.....	1.00
" first quality.....	.50@ .75
Sweet peas.....	.15.00@20.00
Smilax.....	.15.00@50.00
Asparagus.....	.50.00
Adiantum.....	1.00

CHICAGO, June 19.	
Roses, Beauties.....	8.00@20.00
" seconds.....	4.00@ 6.00
" Brides, Bridesmaid.....	3.00@ 5.00
" Meteors.....	3.00@ 5.00
" Perle, Wootton.....	2.00@ 4.00
" Testout.....	4.00@ 6.00
" Kaiserin.....	4.00@ 6.00
Carnations.....	.75@ 1.25
" fancy.....	1.50
Longiflorum.....	8.00
Auratum.....	8.00
Candidum.....	2.00@ 3.00
Valley, cold storage.....	5.00
Mignonette.....	1.00
Sweet peas.....	.25@ .40
Campanulas, per bunch.....	.25c
Coreopsis.....	.25
Gypsophylla, per bunch.....	.25c
Cornflowers.....	.40
Smilax.....	.15.00@18.00
Adiantum.....	1.00

ST. LOUIS, June 17.	
Roses, Beauties, long.....	5.00@12.50
" short.....	2.00@ 4.00
" select stock.....	3.00@ 5.00
" general stock.....	2.00@ 3.00
Carnations, fancy.....	1.00@ 1.50
Valley.....	3.00
Cornflowers.....	.25
Disals field.....	.15
Sweet peas.....	.25@ .35
Asters.....	1.00
Cape jasmynes.....	1.00
Smilax.....	.12.00@15.00
Ferns, Adiantum.....	1.00
Ferns, common.....	1.00

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 Successor to PECK & SUTHERLAND,
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DISBUDED CARNATIONS.
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Careful Shpping to all parts of the country.
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The Seed Trade.

AMERICAN SEED TRADE ASSOCIATION.

T. W. WOOD, Pres.; ALEX. RODGERS and J. B. RICE, Vice-Presidents; A. L. DON, 114 Chambers Street, New York, Sec'y and Treas.

Mr. W. BROTHERTON is in California.

VISITED CHICAGO: W. Atlee Burpee, Jas. B. Kidd, S. M. Pease, J. L. Uilathorne.

NEW YORK.—S. Y. Haines of Minneapolis, Minn., is in town and expects to sail for Europe, shortly.

THE CONTRACT ORDERS booked by the N. B., G. Co. to the amount of over \$100,000 are about to be sold by order of the court.

GERMAN seed growers report June 1 much damage to growing flower seed plants from drouth and dry easterly winds. Present crop prospects are very poor indeed.

BOSTON.—Four days of continuous rain has put a stop to the drouth for the present; it is so long since we have had a rainy day that this storm was a most welcome surprise. No one seems to speak very enthusiastically of the past season's mail trade, but as a rule counter sales have been very good, and are still holding on remarkably well.

Seeds in California.

In the seed growing districts of the Santa Clara Valley, including Menlo Park and Gilroy, the crops are as a general rule looking excellent, and with few exceptions, there will be a full crop. Onions never looked as well as they do at present. They seem to be entirely free from the blight this year, and as a result they are heading up in grand shape. Salsify also is looking good and some of it is beginning to ripen. Leeks are yet growing and in all probability will be a good crop. Lettuce of early planting is doing well, but in some places late plantings will not be in good shape on account of the warm, dry days. Flower seeds generally have done splendidly, with the exception of nasturtiums, which were killed by the late frosts. The warm days have brought all the sweet peas into bloom, which are now a show, acre after acre of different colors making a beautiful sight at noonday. Asters are doing fairly well. Cosmos and petunias will come out all right.

One of the prettiest sights imaginable is to see a field of Cupid sweet pea. It resembles a field covered with snow. As a general rule this variety is doing very well. A remarkable thing about this variety is that it comes so true and has no inclination to sport away to a different color, nevertheless a new dwarf will be sent out by one of our leading seed houses next year, but it did not sport from Cupid. Beets are doing nicely, also cauliflower and cabbage. METEOR.

San Francisco.

Decoration Day business was very good all around. Immense quantities of sweet peas were disposed of and the prices realized were fairly good. The sweet peas were of excellent quality also, the stems being long and the flowers of fine form and color. We note that the public is rapidly beginning to know a good sweet pea from a deteriorated bloom. The sweet peas that the fakirs are handling are as a general rule small deteriorated

blossoms of an offcolor. Roses are holding their own very well. Beauties are rather scarce. Wm. Hale's old place is supplying the larger out-put of Beauties at present. Testouts are of a very excellent quality and come in for their share of popular favor. Some extra good Perle, Mermet, Bride and Bridesmaid are in, also Cecile Brunner. This little rose is very popular in this market.

The outdoor crop of longiflorums is now coming in in limited quantity. They are excellent and are finding a good market. Carnations are as usual in fine form and the supply is fully equal to the demand. McGowans are not over-plentiful, the same may be said of Daybreak, Scott has caught onto the public favor in this market and with the exception of Portia is the most popular sort we have. The warm days last week have done some damage in some places to the young, soft buds of sweet peas, having burned them completely. Liliun auratum is coming in now and finds a ready market. The quality is excellent.

W. Atlee Burpee, who spent nearly a month in California, has returned to the East accompanied by his wife. Mr. Burpee claims that each year he is becoming more in love with our state and says that hereafter he intends coming to California in search of novelties instead of going to Europe, which heretofore has been the custom of nearly all our seedsmen.

The failure of the Northrup, Braslan, Goodwin Co., of Chicago was severely felt by a number of seed growers in the Santa Clara Valley, who have been growing seed for the above named firm for years.

W. A. Brotherton, representing Jerome B. Rice & Co. of Cambridge, N. Y., is here looking over the growing crops in the interests of the above named firm.

Mr. V. H. Hallock of Queens, N. Y., accompanied by his family, is here also looking over the seed crops generally throughout the Santa Clara Valley in the interest of Jas. M. Thorburn Co. of New York. Mr. Hallock is delighted with our advantages as a seed growing district, and says in time California will lead all as a seed growing country.

Mr. Geo. Ernst of Pelicano & Co. has been seriously ill for the past three weeks.

Mr. Baldocchi of Podesta & Co. has also been on the sick list but is getting along all right again.

Mr. Lester L. Morse of C. C. Morse & Co. was up last week and in company with Mr. Burpee paid a visit to the "Wizard of horticulture," Luther Burbank, at the latter's place in Santa Rosa.

Thos. H. Stevenson of Powell street has opened up a branch store in the Emporium on Market street. Mr. Stevenson has thus secured one of the finest stands in the city. It is right beneath the dome of the building. He is keeping up an excellent stock of roses, carnations and sweet peas. On the right of the entrance he has a fine show of kentias, dracaenas, ferns, begonias and pelargoniums all very artistically arranged. Another thing of which genial Tom is justly proud is his new delivery wagon, supposed to be one of the finest in this country. The sides are all painted with orchids all their natural colorings. Cattleyas, cypripedes, odontoglots and lilies form the most striking group. The harness was made in London, and is the finest that can be bought. Taken as a whole great credit should be reflected on Mr. Stevenson for the enterprising spirit he has shown. The old store on Powell street will be also conducted in connection with this one.

Mr. Sidney Clack reports that everything is moving nicely with him. The stock he is bringing in is of very good quality.

Mr. H. Pottet, the rose grower, is making a number of improvements at his place on the San Bruno road. He is having his houses all renovated and a new system of heating put in which will cost several thousand dollars. Mr. H. Pottet Jr. is again with his father in the position of manager. The houses all will be replanted this summer with young stock of roses, which is Mr. Pottet's great specialty. Carnations are also largely grown here, as also lilies and ferns.

Mrs. Merriman of Mountain View has made satisfactory settlement with her creditors whereby the business will be conducted as before. METEOR.

Toronto.

There is little of interest to note this week. The cut flower trade has all gone to pieces, there are plenty of flowers of course but —. The plant trade is still a little lively but is growing beautifully less all the time. Seedsmen report a very good trade during the late spring and are now looking up the most desirable summer resorts.

The weather keeps just moderately warm with occasional showers, very pleasant, but a violent snow storm is expected on the 23rd inst. (election day).

"Bedding out" is about done and everything appears to have taken hold and to be going right ahead. E.

BULBS

For Fall Delivery.

Give us your wants, and will quote you price that will give you a living profit.

WM. ELLIOTT & SONS,
—NEW YORK.

Mention American Florist.

C. H. JOOSTEN, Importer,
193 Greenwich Street, NEW YORK.
SPECIALTIES.
Bulbs, Azalea Indica, Palms, Roses,
and all kinds of Nursery and
Fruit Tree Stocks.
Catalogues on application.

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Vegetable and Flower Seeds. All the newest and best varieties—quality unsurpassed. Illustrated Catalogue FREE.

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**PRIMULA SEED.**

This Year's Crop. Now Ready.

Our superb mixture contains only the choicest fringed strains, and will give the greatest satisfaction. Trade pkt. 50c.

Cineraria Seed.

Our strains are unsurpassed for richness of color as well as for size and perfection of form. Trade pkt. 50c.

HERRMANN'S SEED STORE,

413 E. 34TH STREET,

Near Long Island Ferry, **NEW YORK.**

Agent for LYSOL, the ideal insecticide.

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FLOWER SEEDS FOR FLORISTS
ENGLISH MUSHROOM SPAWN.**

Special prices on application.

**JOHN GARDINER & CO., Seedsmen,
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TUBEROUS Begonia Bulbs.

All colors separate.

\$2.00 per hundred. \$18.00 per thousand.

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Branch of the Horticultural Co., Boskoop, Holland.
Mention American Florist.

VAN ZANTEN BROTHERS, Hillegom, Holland.

Extra quality of **HIGH GRADE FORCING BULBS AT LOW PRICES.** We now book orders for **Azalea Indica, Palms, etc.** The largest collection of sundry bulbs and plants.

APPLY FOR WHOLESALE CATALOGUE.

PRIMULA SINENSIS

My own saving, in the following varieties:

**DOUBLE WHITE, SINGLE PINK,
DOUBLE RED. FERN LEAF, Pink,
SINGLE WHITE, FERN LEAF, White
SINGLE RED, Extra, ALBA MAGNIFICA
STRIPED, White and Pink.**

THESE have been carefully fertilized, and there is no better strain in the country.

**ALL VARIETIES MIXED, per pkt., about
200 Seeds, 50c.; 500 Seeds, \$1.00.**

WILLIAM SCOTT,

Main & Balcom Sts., **BUFFALO, N. Y.**

SHEEP MANURE.

PER 100 POUNDS \$2.50.

Closest prices on 500 or 1000 lb. lots.

**VAUGHAN'S SEED STORE,
NEW YORK AND CHICAGO.**

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns

16 PAGES OF USEFUL INFORMATION,
about Bulbs and other Forcing stock,
with lowest prices on record for first
quality stock.

G. C. WATSON,

43 North 10th St., **PHILADELPHIA.**

Send to day for this new price list—free.

FOR EXCHANGE.

Geraniums in var., in bud and bloom, 3 in.; Begonias in var., specimen plants, 4 and 5 in.; Begonia Vernon, fine 2½-inch pots; Heliotropes, best bloomers, 3½-inch; Abutilons in var., 4-inch. FOR

Latania Borbonica, 5 inch; Mums, rooted cuttings; Perle Roses, 3 inch; Dracenas in var., any size.

Write stating what you have for exchange for above

L. E. HITZ, Madison, Ind.

Pansy Seed.

The Cunningham strain of finest mixed,
equal to any strain in America.

½ oz. \$2.00; 1 oz. \$4.00; 3 ozs. \$11.00.

CASH WITH ORDER.

JOS. H. CUNNINGHAM, Delaware, O.

Mention American Florist.

Please mention the American Florist every time you write any of the advertisers on this page.

NEW ROSE

"Mrs. PIERPONT MORGAN"

Listen for a moment to what a voice from far off Springfield, Illinois, has to say about our young stock of this rose:

May 4, 1896.

"EDWIN LONSDALE, Chestnut Hill, (Station H), Philadelphia, Pa.

"DEAR SIR:—Box of 'Morgan' rose plants arrived Saturday in good shape. Fine Plants. I would like to know how you produce plants of such size in a two (2) inch pot?"

All I can say is that it is all owing to the natural vigor of the variety, and perhaps to some extent to the natural rose growing qualities of our soil.

We have a few more left of the same size. Order early or you may get left, for I do not know of a more profitable variety to grow for cut flowers than MRS. PIERPONT MORGAN.

Don't forget our address:

EDWIN LONSDALE, Station H,
Chestnut Hill, PHILADELPHIA, PA.

Last Offer of SURPLUS STOCK ROSES. TEAS. ROSES.

Papa Gontier,	Marie Van Houtte,	Fortune's Yellow,
Mme. Hoste,	Cath. Mermet,	Gloire de Dijon,
Rainbow,	Ernest Metz,	Lacole,
W. Bon Silene,	Safrano,	Dr. Grill,
Golden Gate,	Mrs. Bosanquet,	Louis Richard,
De Watteville,	Empress Eugenie,	Wienralana,
Caroline Kister,	Apolline,	Macrophylla,
Eliza Fugler,	James Sprunt,	Mrs. Degraw,
Martha du Berg,	Queen's Scarlet,	La Nelce,
Eliza Heyman,	Arch Duke Charles,	Leo XIII,
Caroline Cook,	Cherokee,	Furstin Bismarck

\$2.50 per 100; \$22.00 per 1000.

HYBRID PERPETUALS.

Mme. Plautier,	Gen'l Jacqueminot,
Chas. Lefebvre,	Dr. Hogg,
Anton Monton,	Prince Camille,
Pierre Notting,	Eliza Boelle,
La Rosiere,	Pride of Waltham,
Marie Baumann,	Gloire de Margottin,
Cardinal Patrizzi,	Baron de Bonstetten,
Vick's Caprice,	Dr. Andry,

\$4.00 per 100; \$35.00 per 1000.

MOSS ROSES.

James Veltch,	Monseline,
Capt. Basroger,	Glory of Mosses,
Alice Leroy,	Prolific (or) Gracilis,
Henri Martin,	\$4.00 per 100; \$35.00 per 1000.

Also a fine stock of YOUNG CARNATIONS, 2½-in. pots, at \$2.50 per 100.

Address **NANZ & NEUNER,**
582 Fourth Ave., LOUISVILLE, KY.
Mention American Florist

Do You Need Roses?

I have 25,000 good ones out of 2½-inch pots, and can give you prices that will open your eyes.

BRIDES.....	2½ cts.
BRIDESMAIDS.....	2½ cts.
MERMETS.....	2½ cts.
PERLES.....	4 cts.
METEORS.....	4 cts.

This stock is in good shape. Cash with order.

CHAS. KOEPPEN, SEDALIA, MO.
Mention American Florist.

100,000 Strong Field-Grown ROSES

(Budded and own roots) for Fall delivery.

Try our new **BIOTA AUREA NANA.**

Thousands of **Olea Fragrans, Azaleas, Camellias and Magnolia Fuscata.**

Prices on application.

P. J. BERCKMANS, Augusta, Ga.

ROSES.
FRANK L. MOORE,
CHATHAM, NEW JERSEY.

THE DIRECTORY

For 1896.

IS NOW READY.

Price \$2.00.

AMERICAN FLORIST CO.

American Beauty Plants.

These are extra fine and absolutely free from Black Spot.

2½-inch pots, \$70.00 per 1000.

3-inch pots, 110.00 per 1000.

4-inch pots, 130.00 per 1000.

JOHN BURTON, Chestnut Hill, PHILADELPHIA, PA.

Roses, Roses and Roses.

All the best NEW and STANDARD varieties for winter forcing now ready in A1 stock, and of

MRS. PIERPONT MORGAN,

the most profitable known variety for forcing, and of the easiest possible culture. I have a grand lot now ready. Write for special prices on this variety for large lots to

JOHN N. MAY, Summit, New Jersey.

Mention American Florist.

REINBERG BROS.,

Some very fine AM. BEAUTIES, out of 3-inch pots, \$6.00 per 100.

KAISERIN and METEORS, 2-inch pots, good, healthy stock,

\$2.00 per 100. BRIDES, 3-inch, \$4.00 per 100. And

KAISERIN, 4-inch, at \$5.00 per 100.

Send orders to **51 Wabash Ave., CHICAGO, ILL.**

Mention American Florist.

30,000 FIRST QUALITY FORCING ROSES. READY FOR IMMEDIATE PLANTING.

Fully equal to those sent the last four years, first-class and perfectly healthy in every respect. Only selected growth from flowering shoots used in propagating.

WOOTTON,	LA FRANCE,	AMERICAN BEAUTY,	BELLE SIEBRECHT,
3-inch pots, \$8.00 per 100.	4-inch pots, \$12.00 per 100.		
METEOR,	KAISERIN A. V.,	SUNSET,	BON SILENE,
PERLE,	GONTIER,	MME. HOSTE,	NIPHETOS,
BRIDESMAID,	3-inch pots, \$7.00 per 100.	4-inch pots, \$10.00 per 100.	

J. L. DILLON, Bloomsburg, Pa.

When writing mention the American Florist.

ROSES

BEAUTIES, MERMETS, CUSINS, TESTOUTS, NIPHETOS, PERLES, BRIDES, BRIDESMAIDS, METEOR, HOSTE, LA FRANCE, WOOTTON, WATTEVILLES, AUG. VICTORIA, 2 3 and 4-inch pot plants. Cash with order. (Owing to number booked, they will be executed to rotation to assure prompt delivery. Order early.)

Address for quotations, **VILLA LORRAINE ROSERIES, MADISON, NEW JERSEY.**

SURPLUS STOCK ROSES

FOR FORCING.

BRIDESMAIDS, MERMETS, BRIDES, PERLES, NIPHETOS,

3-inch pots \$5.00 per 100. 2-inch pots \$3.00 per 100.

SWAINSONA ALBA, 3-inch pots, \$5.00 per 100.

SWAIN NELSON & SONS,

275 N. Paulina St., CHICAGO, ILL.

ROSES.

Fine stock from 3½-inch pots, \$4.00 per 100.

ETOILE DE LYON,	MAMAN COCHET,
MRS. DEGRAU,	BRIDE,
MARIE GUILLOT,	BRIDESMAID,
MARY WASHINGTON,	MME. HOSTE,
MERMET,	MME. F. KRUGER.

TERMS CASH.

NATIONAL PLANT CO., Dayton, O.

Mention American Florist.

A FINE LOT OF

**Meteors,
and La France,**

Now ready, out of 3 or 4-inch pots. Write for sample and prices to

GEO. A. KUHL, Pekin, Ill.

ROSES.

BRIDES, METEORS, MERMETS and LA FRANCE, \$3.00 per 100; \$25.00 per 1000.
WOOTTONS, \$3.50 a 100; \$30 a 1000; 3 in. \$5.50 a 100.
Until sold, LA FRANCE, 3-in. \$5 a 100; \$45 a 1000.
Strong, healthy stock. 25 at 100, and 250 at 1000 rates. Cash with order.

R. F. TESSON,

West Forest Park, ST. LOUIS, MO.

ROSES. FIRST-CLASS STOCK.

Meteors, Brides, Perles, White Perle, Watteville and La France,

4-inch, \$6.00 per 100; 3-inch, \$4.00 per 100.

CRABB & HUNTER, Grand Rapids, Mich.

ROSES. NOW READY.

First-Class Stock, 2½-inch pots.

	Per 100	Per 1000
METEORS.....	\$2.50	\$20.00
BRIDES.....	2.50	20.00
BRIDESMAIDS.....	2.50	20.00

A. G. PRINCE & CO.,

88 Wabash Ave., CHICAGO.

Denver, Colo.

Mr. Emil Glauber, proprietor of the Montclair Greenhouses, has purchased the flower store at 929 16th street, formerly run by the Denver Flower Co. Mr. Chas. Webb will manage the store for Mr. Glauber. Montclair roses are noted for their excellence.

Mr. J. Walters is preparing to enlarge his range at Harmon by the erection of three houses 18x100 feet, heated by steam. Mr. Walters grows vegetables exclusively.

The Colfax Floral Co. had a very fine night blooming cereus in bloom in their show window June 10 and 11. Five fine flowers opened.

Trade has been rather quiet since Decoration Day, but the general opinion seems to be that it is better than at the same time last year, also that prices are better.

The national convention of the Junior Order of American Mechanics is now in session in this city, and an increased demand for red, white and blue flowers is noticed.

Considerable disappointment was manifested by the local trade at the Capitol commissioners' decision not to appropriate funds for the purchase of bedding plants to ornament the Capitol grounds. The amount needed to properly plant the grounds was \$800, and several of the commissioners were in favor of expending that sum, but at the last meeting of the board it was discovered that so much money had been expended in purchasing brass spittoons and other legislative necessities that out of the quarter of a million dollars or so that the board had at their disposal at the beginning of 1895 there was not enough left to afford anything for the pleasure of the taxpayers.

Supt. Graham is making the city parks bloom like a rose. Mr. Graham is fortunate in having at his back a park board who appreciate his merits as a park maker, and it is to be said to his credit that he justifies the confidence placed in him by getting more and better results for the money expended than ever before in the history of our park system.

Manager Lewis reports that the Colorado Florists' Exchange is keeping up its gait and selling out nearly clean every day. The wholesalers are correspondingly cheerful.

Mr. Chas. Adams, superintendent of the Capitol grounds, having finished all planting and having succeeded in getting a fine lawn started, has laid off all of his force but five men, who will be retained until November 1. The grounds look very trim and neat, and add greatly to the beauty of our really fine Capitol.

There will be no chrysanthemum show in Denver this year, and it is also likely from present outlook that the cut of 'mums will be at least 50% less than last year, which is undoubtedly a good thing, as fine blooms were sold for less than the amount it cost to grow them nearly throughout last season.

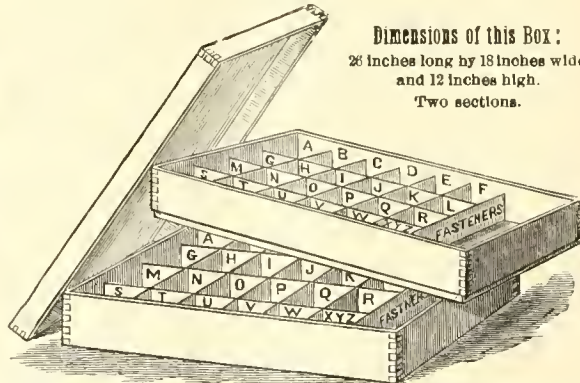
The Colorado Florists' Exchange will carry a line of florists' supplies after July 1.

Garden roses are coming in in quantities, and are retailing at 50 cents per dozen.

Wholesale prices for week of June 15 were: Roses \$4 to \$6, carnations \$1.50 to \$2, smilax 20 cents, peas 40 cents per 100, Beauties \$8 to \$25, a 'tiantum \$1.25, mignonette \$3; good roses scarce.

X X X.

REDWING, MINN.—R. and H. N. Swanson have leased the greenhouses of G. W. Humphrey and will take charge at once.



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

BOSTON FLORIST LETTER CO.

Manufacture the Best Letters in the Market.

Sizes 1½-in. and 2-in. 2.00 per 100. Patent fastener with each letter.

OUR NEW SCRIPT LETTER, \$4.00 per 100.

N. F. MCCARTHY, 13 GREEN ST.,
Treas. & Mgr. Boston, Mass.
Office, 84 Hawley Street.

We have a new FASTENER which we consider a decided success. Any customers having old style fasteners which they wish to exchange, can do so without additional cost by writing us.

These Letters are handled by all the Wholesalers Boston.

ESTABLISHED 1866. FLORISTS WIRE DESIGNS MANUFACTURED BY N. STEFFENS 335 EAST 21ST ST. NEW YORK.

Our 1895 PALM COLLECTIONS are better than ever, and consist of 17 3 to 4-inch for \$3, or 34 for \$5; 10 4 and 5-inch Palms for \$3.50, or 20 for \$6.00; 6 6-inch Palms for \$5.00, all the best varieties.

ROSES— Per 100
Monthly and Tea, best kinds, 2 inch . . . \$ 2 50
" " " " 3 inch . . . 5 00
" " " " our selection . . . 4 50
Hybrid Perpetual, assorted kinds, 2-in. . . 2 10
Crimson Rambler . . . 10 00

FERNS—
Adiantum Cuneatum, 3 and 4-inch, \$6 & 10 00
" Farleyense, 3-inch . . . 25 00
" " 4-inch . . . 50 00
" Capillus Veneris, 3-inch . . . 5 00
Sword, 3-inch . . . 5 00

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Send for catalogue and samples.

WILLIAMS & SONS CO.,
BATAVIA, ILL.
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AZALEAS
BEGONIAS
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SPECIAL OFFER.
TOEFFAERT & GEE,
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BELGIUM.
and 36 Catharine Street,
Liverpool, England.
PALMS, ARAUCARIAS, BAYS, &C

CINERARIA SEED. GRANDIFLORA NANA.

This grand strain of Giant-flowering and compact growing Cinerarias is unequalled for size of bloom, richness of colors and symmetry of growth. Extra fine Trade pkt. 25 cts.; 3 pkts. 60 cts.; 6 pkts. \$1.00.

JOHN F. RUPP, Shiremanstown, Pa.

GLASS. ROCK BOTTOM PRICES. Send for Estimate. Satisfaction guaranteed.
REED GLASS CO.,
102 South 5th Avenue, NEW YORK CITY.

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Florists'
Photographs
IN TAKING ORDERS.

Catalogue FREE.

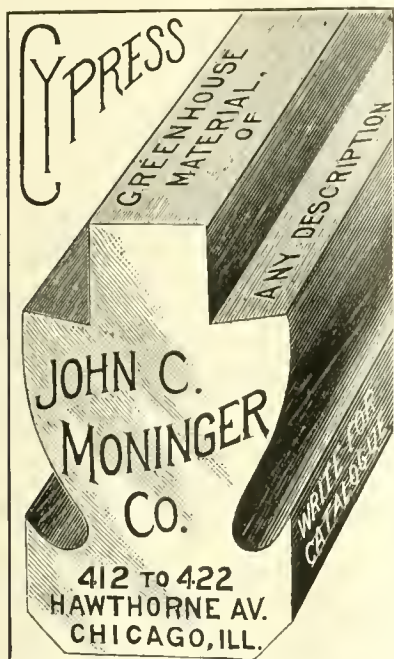
DAN'L B. LONG, Publisher,
BUFFALO, N. Y.

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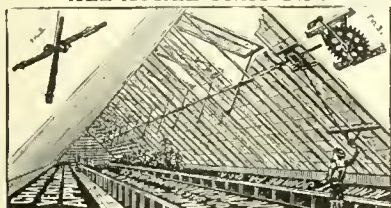


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GALAX LEAVES,
For Decorating and all Florists' Designs.
CHAS. H. RICKSECKER, Linville, Mitchell Co., N. C.

COLEUS.
2000 clean, strong plants, 2½-inch pots, best bedding sorts. Entire lot for \$25.00, or \$1.50 per 100.
P. O. or Express Money Order.
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MANY MEN OF MANY MINDS
ALL AGREE THAT THE



CHAMPION VENTILATING APPARATUS
IN THE

Lightest, Most Durable, Most Efficient and Cheapest

Apparatus on the market. Send for circular.
AMERICAN ROAD MACHINE CO., Kennett Square, Pa.

H. BAYERSDORFER & CO.,
WHOLESALE
FLORISTS' SUPPLIES ONLY,
58 N. 4th Street,
PHILADELPHIA, PA.

Our new Catalogue is now out, free upon application.

M. RICE & CO.
Importers and Manufacturers of
FLORISTS' SUPPLIES
25 N. FOURTH STREET,
PHILADELPHIA, PA.
Special price for your wants on application.

RIBBON

FLORISTS' SPECIAL COLORS:
American Beauty, Violet, Bridesmaid,
Orchid, etc. Write for samples.

Reference: THORLEY. C. O. D.

H. M. WEISEL,
156 East 72nd Street, NEW YORK.
Mention American Florist

John Conley & Son,
Manufacturers of
TIN FOIL
2 AND 4 DOMINICK STREET,
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— OF —
FLORISTS,

NURSERYMEN

AND SEEDSMEN

— OF THE —

UNITED STATES AND CANADA,

— AND —

REFERENCE BOOK,

FOR 1896,

IS NOW READY

CONTENTS.

The names and addresses of all the Florists, Nurserymen and Seedsmen in the United States and Canada, arranged alphabetically in States and Provinces, the exact branch of the business each is engaged in being indicated by the following

. . . . KEY

- F Florists who do a general local trade, having greenhouses and retailing the product of same.
- G Florists who grow cut flowers or plants for the wholesale market and who do not sell at retail. Almost always within a short distance of a large city.
- R Retail store florists who have no glass of their own. Nearly always in the large cities.
- D Wholesale commission dealers in cut flowers.
- N Nurserymen.
- X Those who are both Nurserymen and Florists.
- S Seedsmen.
- Z Those who are both Seedsmen and Florists.
- A Those who combine all the branches, viz.: Florists, Nurserymen and Seedsmen.

. . . . ALSO

- A list of Trade Organizations, both National and Local, with names and addresses of principal officers, time and place of meetings and date of organization.
- Statistics regarding Floriculture, the Nursery Industry and Seed Growing from the last U. S. Census report.
- A list of firms in the trade that issue catalogues, with a key indicating the prominence of each branch of the trade in same.
- A list of leading Cemeteries in which attention is paid to Ornamental Horticulture.
- A list of leading Park Superintendents and of the Botanical Gardens of the United States.
- Seasonable Hints for the year about the practical work of the Florist, written by Wm. Scott, giving instructions not only when to do certain work, but how to do it most effectively and economically.
- A complete alphabetical list of Roses in commerce in America, brought up to date and of incalculable value for reference.
- Similar lists of Chrysanthemums, Carnations and Cannas.
- Historical sketches to date of the Society of American Florists, American Carnation Society, National Chrysanthemum Society of America, Florists' Hail Association, American Seed Trade Association and American Association of Nurserymen.
- A list of Leading Horticultural Societies.
- Full and accurate information about Express and Postage rates.

News Notes.

FORT WAYNE, IND.—Herbert W. Bond has started in the business with one new house 18x60.

INDIANAPOLIS, IND.—Bertermann Bros. have removed to Nos. 85 and 87 E. Washington St., where they will have superior facilities.

SABETHA, KAS.—W. C. Machamer, the florist of this place, was killed in the tornado of May 17. His business will be discontinued.

DUNKIRK, IND.—The Dunkirk Floral Co. has been purchased by Jas. R. Johnston, of Sidney, O., who takes possession at once. There are three houses, containing 5000 feet of glass.

IOWA CITY, IA.—Jas. Aldous & Son have received a contract for landscape work for the city amounting to \$3,000. They received this order in competition with other bidders from larger cities.

LOUISVILLE, KY.—The store of E. G. Reimers was entered by burglars the night of June 9 but were frightened away before getting into the safe. They had partly succeeded in breaking the lock.

TACOMA, WASH.—In connection with the three days' rose carnival to be held here June 25—27 will be a fine horticultural exhibition under the auspices of the Tacoma Florists' and Gardeners' Association.

TOPEKA, KANS.—James Hayes is just completing a rose house 125x21, built on walls of solid stone, the north wall about 8 feet high. He is also building between this and the main office a palm house 22x21 feet; butted glass 16x16.

MACOMB, ILL.—Mrs. Caroline Elizabeth Pillsbury, mother of I. L. Pillsbury, died at her home here June 8th, in the 78th year of her age. Funeral services were held in Macomb, the remains being taken to Andover for interment.

BELLAIRE, MICH.—H. B. Deal has sold his greenhouse business to A. E. York, and has entered into partnership with J. H. Deal of the Central Greenhouses of Owosso, Mich. They will build two new houses for roses and carnations, each 70x20.

KANSAS CITY, MO.—Thomas H. Swope, a local capitalist, has given the city a tract of land containing 1,313 acres to be used as a public park. The only conditions are that the city shall have had the land surveyed and the park planned by Jan. 1, 1898, that for ten years the city shall expend \$5,000 a year in improving the park in excess of the salaries of officers or engineers; that the land shall be used as a park for all time and that it shall be called "Swope park."

Jones, McDuffee & Stratton, Plant Pots and Pedestals

of all grades, sizes and values, direct from the best Potteries of England, France, Germany, China Japan and the U. S.

WHOLESALE AND RETAIL.

120 Franklin St. cor. Federal, Boston, Mass.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.



WIND MILLS FOR PUMPING.

FAIRBANKS—GALV'D STEEL.
ECLIPSE—WOOD.

50,000 Already Sold.

BOILERS FOR HEATING.

VALVES, PIPE AND FITTINGS.

FAIRBANKS, MORSE & CO.

Cor. Franklin & Monroe Sts., CHICAGO.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO.

NATURAL GAS MADE GLASS, FOR GREENHOUSES.

Write for latest prices.

STANDARD FLOWER POTS.

Send for our new price list, with extra discounts. All of our Pots from 7-inch and upwards have our Patent Excelsior Bottom, which is a great advantage as it insures perfect drainage.

A FULL LINE OF BULB PANS.

THE WHILLDIN POTTERY COMPANY, 713 to 719 Wharton Street, Philadelphia, Pa.

BRANCH WAREHOUSES: { Kearney and Westside Aves., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, N. Y.

STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere. Our facilities are unequaled.

A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Doppf & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Doppf and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

SYRACUSE POTTERY CO. OFFICE:
403 North Salina Street, SYRACUSE, N. Y.

THOS. W. WEATHERED'S SONS,
INCORPORATED.

Horticultural Architects and Hot Water Engineers

Send for Catalogue, enclosing 4 cents in stamps.

139, 141, 143 Center St., NEW YORK.

GLASS For Greenhouses, Conservatories,
Graperies, Hotbeds, and all other
purposes, at Lowest Rates. GLASS

N. COWEN'S SON, 392 & 394 W. Broadway, NEW YORK.

Get our Figures before buying Glass.

Estimates freely given.

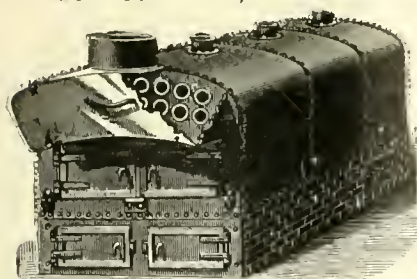
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SAVE YOUR \$ \$ \$ by using our
HANDY SASH LIFTER.

For prices, apply to
GEO. W. HAMILTON, 176 Sidney St., Dorchester, Mass.

Kroeschell Bros. Co. IMPROVED Greenhouse : Boiler,

29 to 59 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back.) Write for information.
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CYPRESS

IS MUCH MORE DURABLE THAN PINE.

CYPRESS SASH BARS

UP TO 32 FEET IN LENGTH OR LONGER.

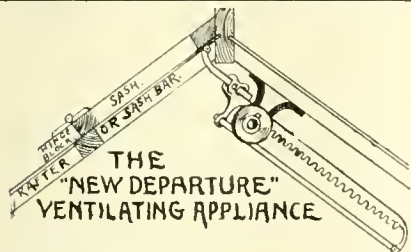
GREENHOUSE

AND OTHER BUILDING MATERIAL.

Send for our Illustrated Book
"CYPRESS LUMBER AND ITS USES."
Send for our Special Greenhouse Circular.

THE A. T. STEARNS Lumber Co.,
NEPONSETT, BOSTON, MASS.

When writing mention the AMERICAN FLORIST.



THE "NEW DEPARTURE" VENTILATING APPLIANCE

D. CARMODY, Evansville, Ind.

Dear Sir:—Enclosed find remittance for ventilating appliance. I find it the best, cheapest and easiest to work I ever handled—no exceptions whatever. Yours truly,

J. E. JACKSON, Gainesville, Ga.



EVANS' IMPROVED Challenge Ventilating Apparatus

Write for Illustrated Catalogue.

QUAKER CITY MACHINE WORKS,
Richmond, Ind.

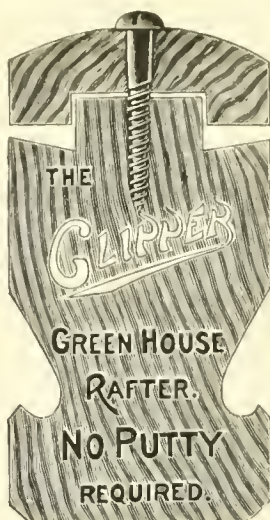
IMPROVED GLAZING! GASSER'S ZINC JOINTS

Makes a roof Air and Water Tight. No lapping. No breakage from frost or medium sized hail. Saves fuel.
SEND FOR CIRCULAR.

J. M. GASSER, Florist,

101 Euclid Avenue, CLEVELAND, O.

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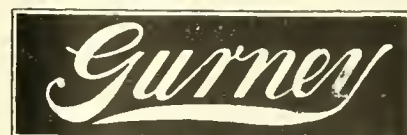
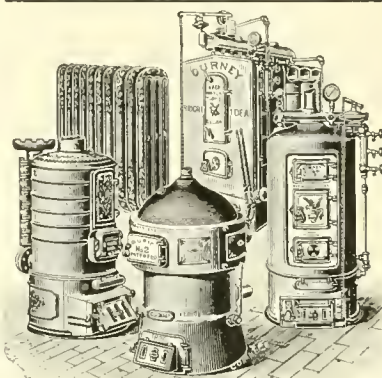


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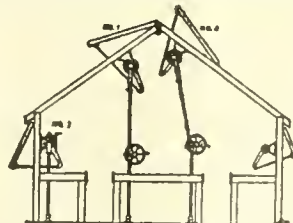
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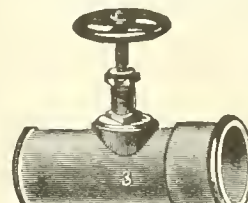
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BANGOR, ME.—Mr. John F. Jerrard of the Geo. W. P. Jerrard Seed Co., was married to Miss Mabel G. Clark on Wednesday, June 3.

SPRINGFIELD, MASS.—The seventh annual rose show of the Amateur Horticultural Society which took place on June 12 and 13 was a great success. The number of exhibitors was unusually large and the attendance was most gratifying. The next sensation in the exhibition line will be the sweet pea show of the Hampden Horticultural Society, which will be held in latter part of July.

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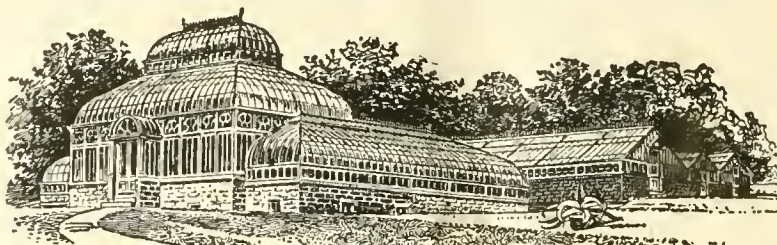
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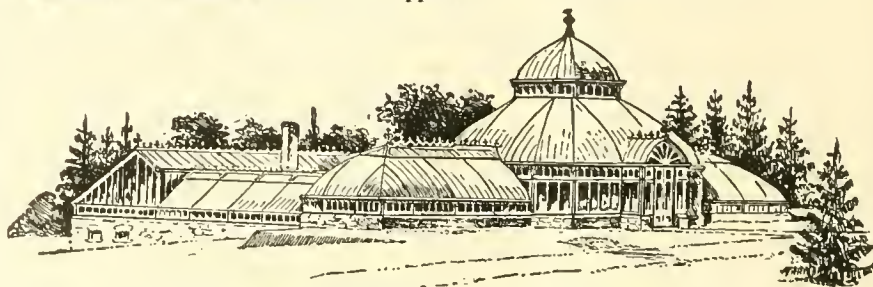
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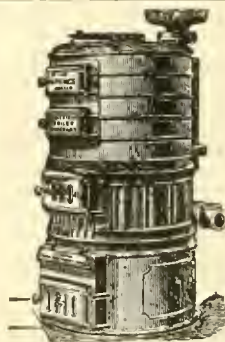
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Vol. XI

CHICAGO AND NEW YORK, JUNE 27, 1896.

No. 421

THE AMERICAN FLORIST

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ton, secretary; H. B. BEATTY, Oil City, Pa., treasurer.
The twelfth annual meeting will be held at Cleve-
land, O., August, 1896.

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Society of American Florists.

The Central Passenger Committee, which controls the action of all the trunk lines entering Cleveland, has granted an excursion rate of one and one third fares for the round trip on the certificate plan to all members of the Society of American Florists attending the convention in that city, August 18 to 21, 1896.

WM. J. STEWART, Secretary.

THE Dingee & Conard Company controversy has at last been amicably adjusted by the complainants withdrawing all charges. Mr. Charles Dingee now becomes the possessor of practically the entire capital stock of the concern.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.



Chrysanthemum Notes.

The plants that were planted out the first of June should by this time have taken a good hold of the soil and commenced to make growth, and will soon have to be tied up. Like the carnation growers those growing chrysanthemums have not as yet seemed to find an ideal way to do this, although many schemes have been advanced. The most economical way is to tie them to strings, which are fastened to wires stretched across the bench and overhead. This plan is adopted by most of the growers who grow in large quantities, for the strings cost but little and can be quickly strung, the top wire being allowed to remain in place all the year round. The greatest objection to this plan is that it does not always keep the stem straight. The strings after being continually syringed and then becoming dry soon grow slack, and the plants move back and forth when being syringed. They consequently get bent on one side or the other, and the string also bending so easily, the stem can not be straightened by such a support. Tying to sticks is by far the easier and best way, for if a stem does perchance get a little crooked it can be tied up straight to the stick and will remain so, even after being cut. But sticks cause quite a little outlay, and when there is only three or four inches of soil the foothold is not strong enough to keep them upright when the heavy foliage and bloom are looking to it for support. In saying that sticks are expensive I know full well that many growers are so situated that they can cut them by the cart load near at home, but if they should sit down and figure up the time that one or two men will take to cut and trim up a thousand sticks they will find that perhaps they could have bought sticks at the sawmill cheaper after all. We this year are tying our chrysanthemums in much the same way that rose growers use the stakes in benches—that is, we run a row of wires the length of and about three feet above the benches, drawing them as tight as we can over each row of plants, and after sticking the stake into the ground as close to the plant as we can without injuring the roots, fasten it by a hair wire to the wire drawn overhead. The hair wire will rust enough by fall so that the stakes can be easily removed. This keeps the stakes perfectly

upright and allows each plant after it has grown up its allotted space.

The plants that are intended for the growing of sprays should be planted out as soon as possible. While these may not require quite as heavily manured soil as those intended for exhibition blooms, yet if a good full spray, that will immediately attract a customer's attention is wanted, don't be stingy with the food that the plant requires. These plants should be set at least eight inches apart in the row and the rows ten inches apart in order to allow the plant to grow six or eight sprays and give the sprays room to develop without overcrowding. As soon as the plant gets established stop it and cause it to break out the side eyes. The best way to do this is by following the directions of Mr. Edwin Molyneux in his book on chrysanthemum culture. We advise just taking out the very tip. The best way we have found to do this is to take hold of the top of the plant with the forefinger and thumb of the left hand and while not pinching it hold it firm and rub the thumb of the left hand over the tip, just breaking out the young growth that is forming. This leaves a soft tender growth at the top that will immediately break out shoots; in the majority of cases these growths will appear, and as soon as they attain the length of about six inches repeat the same operation, and then there will be nine shoots. After these have grown select the six strongest, cutting out the others; if more than six shoots are wanted repeat again, only do not tax the strength of the plant too much and do all the stopping before August 1, for the plants will need all the time after that date to grow a good long stem and finish its flowers. Do not, if it can be prevented, stop the plants by cutting back to the hard wood, for the eyes break slowly and too often the shoots are so weak that they will produce a very poor grade of flowers.

The cuttings for the small plants should be put into the propagating bench as soon as possible, if not already done. As soon as rooted pot off into 3-inch pots, and as soon as established in the pots stop them in the same manner as described in the directions for growing sprays, and as soon as the branches have grown out an inch or so stop them again. Do not be afraid that you are keeping the plants down too short, for if you are careful to only break out to the soft wood, you will find that when you cease stopping them, like a good race horse, that has been held in for the first part of the race, they will bound out and be in at the finish. ELIJAH A. WOOD.

Premature Buds on Chrysanthemums.

S. B. D. inquires: "What is the matter with my plants? They were planted in the benches the 1st of June, and took hold

well, but many now are showing a bud at the top."

The inquirer does not say when the plants were rooted and as there are two kinds of buds that are apt to form at this time of the year, it is quite hard to answer this query. As friend Thorpe used to say: "It is very hard to diagnose a case a hundred or more miles away." If the plants were rooted early in March or before they are very apt to set what the English growers term the May bud, which is a bud that is long vertically and the eyes below simultaneously with its appearance begin to throw out their shoots. This does not amount to anything and should be broken out, and then if the plants are to be grown to one shoot select the strongest (generally the second eye), and cut the others out. This bud is very carefully watched for by the English growers and if it does not make its appearance, which varies with different varieties, at the proper time, the plant is stopped by hand.

The other bud is a round flat bud, its greatest length being horizontal and looks like the terminal bud that forms in the fall. This is very apt to form on Niveus and Vivand-Morel and its sports and seedlings, and seems to be a stopping of all growth. In the opinion of most chrysanthemum growers this is caused by the propagation of the wrong kind of wood, that is from growths that spring out of the hard wood instead of those that come from succulent suckers, but early pot-binding we have also found will bring about the same result. If this is the kind of buds that "S. B. D." has on his plants, the only thing that he can do is to watch until the plant make a soft growth from one of the lower eyes and then cut off the top. Next year be careful to take good soft cuttings and do not allow the plants to get pot bound. Some growers take cuttings of Vivand-Morel very early and then take their cuttings for planting out from these early struck plants, claiming that these plants do not harden off so easily and do not form these buds in June.

ELIJAH A. WOOD.



• Carnation Notes.

It is a pleasure to walk through the carnation field and notice the advanced condition of the plants, as compared with last year at this time. One other noticeable feature is the disappearance of the bacteria so prevalent on the young plant through May and beginning of June. I have at this moment some leaves before me that I had marked as infested with bacteria. But now on some leaves, while I can find the traces of bacteria yet, mostly on the lower side of the leaf, on the upper side the spots seem to be overgrown, healed over, that is I can see no yellow spots by holding the leaf against the light; before, these spots could be noticed by looking down on the leaves on the plant. The present favorable growing weather enables the plant to build up faster than the bacteria can destroy, and as long as the tissues, cell walls, are not totally destroyed, mend the injured places again. The leaves mature faster, grow hard, when the bacteria becomes power-

less. This is the resistance the plant will offer, when enabled to do so. The plant can not prevent the entrance of the bacteria germ but in a healthy matured leaf its life is not an easy one.

Study the advantages and reverses of the field culture, and you will not fail to give your plants the right treatment when you bring them under glass.

We are cutting good flowers yet of most all our varieties in the houses, especially of Mrs. Duhme, Uncle John, Scott, Albertini, Storm King and Bridesmaid; Daybreak is easier hurt by the hot weather. A light shading will help them very materially, and do not fail to give plenty of water; it does not matter much how you apply it now. We have no other work with them now than to water, the support is there, and the benches look the same as in midwinter, scarcely a plant missing, and are in as healthy blooming condition as one can wish for, only the flowers are not as large, and we disbud yet too. We find it pays us very well to give a little attention, for we can sell every flower at paying prices. It appears as if the above named varieties will hold out until forced to throw them out to make room for the young stock.

FRED DORNER.

Deep Planting of Carnations.

In a recent number of the FLORIST Mr. Gilchrist explained one cause of carnations dying in the field and held that it was caused by too deep planting. The writer knows of at least one instance where this article alone was worth many times the price of subscription, the trouble being in a batch of seedlings grown in pots, these were planted too deep and died off rapidly. The field was gone over and the earth removed from the neck of the plants and the owner is convinced that this will save the remainder.

F. J. B.

Through American Eyes.

AZALEAS IN GHENT.

Second only to the palm in commercial importance to the Belgian florist stands the azalea. Nearly every grower has a stock of these plants according to the size of his place and greenhouse capacity to house them in winter, while quite a number of large establishments make a specialty of the azalea and raise them by the acre, confining themselves to the culture of this plant alone. Many are grown under contract by small florists to supply the traveling dealers who take orders in America, England and other European countries. Two and three acre blocks of azaleas were quite common and one grower exhibited with pride his ten acre field filled with fine stock, which he said was the largest collection in Belgium.

The azaleas are all grown planted in the open field in summer in prepared beds, five to six feet wide, of leaf mould and peat. They are watered as a rule twice a day, all by hand, the men carrying large zinc cans with bow handles, one in each hand. These are fitted with a coarse rose that empties very quickly. The American plan with the hose was suggested as an improvement, but the florist said he had to have the men at packing time, and he kept them busy during summer so as to have them in the fall. The water supply is from wells entirely, pumped either by steam, hot air, or by hand, a series of cisterns through the fields are connected with the main tank and the water kept at the same level by gravity, the supply

of water being determined by the number of men watering.

The stock as a rule looked very strong and vigorous, but it could be seen that some growers were more particular than others, keeping their plants pinched back, thus making much more shapely heads. A ten to twelve inch crown was often a much better plant at one place than at another, where though it might measure the diameter it was loose and unshapely and not worth more than half as much.

The ten to twelve and twelve to fifteen inch heads were the most popular sizes and whole beds of such kinds as Mme. Van der Cruyssen, Simon Mardner, Duetsche Perle, Vervaeana and other popular varieties were to be seen.

Large plants were scarce, that is specimens, comparatively few were seen and these were mostly undesirable varieties. Some with several kinds grafted on one plant so as to form rings of color were held at high figures. It would seem as if the good kinds, at least those most popular, were in such demand that there were none left to grow on into specimens.

Azaleas are propagated almost entirely by being grafted on some strong growing stock of such kinds as Finetia, which is raised from cuttings, and when about six months old is ready to receive the graft. This is generally done during the winter months, the plants after grafting being placed in a close frame in a warm greenhouse and in about a month have generally taken and are removed to another house to grow on. These plants when set out in the spring grow rapidly and by fall have a 6-inch crown. In winter the stock is lifted from the field, a good ball of earth coming up with the roots, and placed close together on the tables in the houses, where they are kept in a dormant state but not allowed to freeze. Only the extreme large sizes are potted. The one year plant generally makes a 6-inch crown, the two year ten to twelve and the third year twelve to fifteen.

Azaleas sport a great deal, but do not hold their variation and all new varieties are raised from seed. A very successful raiser of seedlings was Joseph Mardner of Gardenfeldt, Mainz, Germany. Simon Mardner, Pauline Mardner, Duc de Nassau, Deutsche Perle, Bernard Andre and Bernard Andre Alba, all originated with him. The accompanying illustrations show that the Belgians as well as being master hands in raising azaleas also know a thing or two about exhibiting them.

K.



Drainage in Solid Beds.

Replying to F. H. Reshore and the question "Would it be necessary with a sandy soil, to use cobble stone for drainage in solid beds with bottom heat," without the bottom heat the very light sandy soil might answer very well as drainage, but I hardly think it would be perfect; the manure washing down through the soil, in time changes the light soil into comparatively heavy, so while it might prove very satisfactory for a year or two, it might not prove to be good as a permanent bed. Where pipes are used to furnish



AZALEA EXHIBITION AT GHENT, BELGIUM.
THROUGH AMERICAN EYES.

bottom heat, however, the stone becomes an essential. Should they be laid in the sandy soil, there would be no chance for the air to come in contact with them and they would simply bake the material immediately surrounding them and supply comparatively little heat to the rest of the bed. The open stone work furnishes a splendid medium for the circulation of the heated air under every part of the bed, and sooner than put in pipes without the stone work I would omit the bottom heat altogether.

As to the question, "Would it be any better to give slope to the south to the surface of the beds," would say that in my opinion any slope is simply a nuisance; the principle that it affords a better exposure to the sun is all right, but the fact that it makes even watering well-nigh impossible, gives us a balance in favor of the level bed. I think everybody who has tried to water the upper side of one of these sloping beds or benches when the lower side was already too wet will agree that the arrangement is very unsatisfactory.

As to side ventilators, yes, I do believe in them, and would not build a greenhouse in this country without them. The fallacy that side ventilators cannot be used without risking a dose of mildew, if not already exploded should be at once. My own opinion is that a house provided with side ventilation and the same operated by a man of good sense and judgment will be far less liable to attacks of mildew than will plants in a house with ventilation at the ridge only. In the spring, especially, there are days when the sun is very hot, but the wind is so cool that it is not safe to open the venti-

lators wide enough to keep down the temperature to the proper degree, but if we can open the side we get the air, keep down the temperature, and at the same time avoid the cold draft. It pays to have side ventilation, if only used while the house is being emptied, refilled and planted, but we can rest assured that where the air is so hot and stagnant that mankind can scarcely exist, much less work, it is equally uncongenial for any plant whose home is not in the tropics.

ROBT. SIMPSON.

Outdoor Roses.

BY DR. ROBT. HUEY.

[Read before the Penna. Horticultural Society June 16.]

It has been truly said that any soil that will grow corn will grow roses. And just in proportion to the careful preparation and fertilization of the ground will be the crop, stalk and ear. So with roses; they always repay good treatment and they delight in a rich and deep soil. The Hybrid class does better in a heavy loam containing clay; while the Teas, Noisettes, Bourbons, etc., prefer a sandy loam or a much lighter soil than the hardier class. Especial care in both cases should be given to a thorough drainage. Roses abhor wet feet. In preparing my beds I remove the soil, lay it aside, and dig the subsoil out until the pit is fully two feet in depth. The bottom is then loosened the full depth of a pick head; and this is filled in with good loam and sod, well enriched with old and well decomposed manure, all thoroughly worked together and firmed down. The beds may be made of any desired shape, but for roses that

do not require protection a bed four feet wide is very satisfactory. The plants can be placed 2 feet 6 inches apart, each way, by placing them thus. This gives one foot to the outside grass border, the plants get the full exposure to the sun, and the flowers can be gathered without stepping on the bed.

I know that I shall antagonize every one of experience present when I advocate the planting of budded roses; but please remember that I am only giving my own experience. I have had uniformly much greater success with budded roses in the Hybrid Remontant, Hybrid Tea, Noisette and Climbing Tea classes than with roses on their own roots. The pure teas, I think, are not improved by budding. The best budded stock I have yet found was obtained from Ireland; and it has been the uniform testimony of all who have examined them that they are the finest roses they had seen growing out of doors in this section.

The dormant plants can be had by the first week in November; which I think the best time for successful planting. Holes are made for each plant 18 inches wide and deep; the roots carried down to their full length, carefully spread out and packed with fine soil; the graft buried three inches beneath the surface and the soil well firmed in and levelled. It is necessary to plant so deeply to prevent the briar stock from sprouting.

No one should plant budded roses who cannot distinguish the briar, if it appear, or who is too careless to dig down and cut the shoot off clean from the root, rubbing it off smooth to prevent starting again, and doing this always as soon as it is discovered. To my mind this is the

only objection to budded roses, and the little intelligent care required is more than compensated for by the greatly increased vigor of the plants and blooms.

The Tea varieties are planted in beds six feet in width; giving space for three rows two feet apart, with the plants set two feet six inches in the rows. This is done for easy winter protection; which is accomplished with a sectional frame that may be taken down, stored away and used year after year. The frames are made from tongued and grooved white pine fencing, 3 feet high at the back, 2½ at front, 6 feet wide, of any desired length, and covered with ordinary bot bed sash; which is opened every day, more or less, according to the weather, except in rains or snows. Care should be exercised to keep the plants so cool that the buds will not be forced out. Unless the temperature is below 32° the sashes are entirely removed, and in zero weather the upper end is slightly raised to admit air. I have a number of Teas that have been doing excellently in such a bed for sixteen years, and they give me hundreds of fine blooms from May until November, and remain so vigorous that the new shoots come up half an inch in diameter.

The Hybrid varieties are protected with a covering of three or four inches of manure over the entire bed, put on at the first freezing, and the bulk removed in the early spring, before in pruning, and all the short manure remaining worked into the soil. The Hybrid Teas may be thoroughly protected by a sod cut about twelve inches wide and wrapped entirely around the plant. This is filled in with manure, and the remainder of the bed covered with rough manure to a depth of three or four inches.

In pruning the hybrids before the high winds of November the long canes are cut back to about 2½ feet, as by that time all the autumn bloom is over. The remaining leaves are mostly on the upper portion of these canes, and if permitted to remain would allow of so much whipping by the winds that the small feeding roots would be torn and broken. Early in March every cane is cut back to six or eight inches and all weak shoots removed, but no good cane is cut out. If the plant has fifty such, so much the better; there still remains root action quite sufficient to support all possible growth. The reason for not cutting back the entire growth in November is that sometimes the weather is sufficiently warm in early winter to force out the upper buds, which will be destroyed by frosts and the subsequent blooms lost. By leaving the canes sufficiently long these upper buds, if forced out, can be removed without loss, and violent whipping has been prevented.

The climbings Teas are pruned sparingly. Simply cut back over vigorous shoots to the limits of the trellis, and shorten in the laterals to two buds. Reine Marie Henriette and Gloire de Dijon respond very kindly to this treatment and live out of doors for many years. The Noisette classes should also be pruned sparingly. William Allen Richardson and Céline Forestier will endure our winters with slight protection and will well repay a little extra care. Lamarque, Bouquet d'Or, Cloth of Gold, L'Idéale, Triomphe de Rennes, Mareschal Niel and the most glorious Reve d'Or have all perished, with me, during our winters, notwithstanding my repeated efforts to keep them over.

The Bourbon class of which Souv. de Malmaison and Mrs. Paul are the types should scarcely be pruned at all. Merely cut off weak and superfluous shoots.

The Teas should be cut back almost as vigorously as the Hybrids, according to the habit of growth. No absolute rule can be laid down, but the stronger growers may be left at twelve inches and the weak at six.

In the spring the beds are gone over with a digging fork, and the surface stirred to a depth of about three or four inches. Turn under the short manure left after the winter dressing has been removed. Edge the beds and leave the surface (which is an inch or two below the level of the adjoining ground) flat to absorb all the rainfall. The beds are stirred over occasionally, during the summer, with a small and sharp rake to keep down weeds and retain an open porous surface. After the buds are set, liquid manure is prepared from cow yard, and we wait for a promised shower. Just as this begins, each plant gets half a gallon of the water of life poured on the surface, as nearly as possible to the bush, without touching the leaves. This is washed down by the rain and eagerly utilized.

If a less number of very fine blooms be preferred to a greater number of smaller ones and a longer season, then all but the center bud on each shoot should be removed. I usually divide this attention, disbudbing a portion for prize blooms and permitting other plants to retain all that they have set. The latter method gives a longer season of bloom.

Cut back plants require very little summer pruning. The vigorous treatment gives long and strong foot stalks; and when each rose is gathered usually a foot of wood is cut away. So where all the blooms are collected there is no pruning required. Only on those plants where the flowers have remained is any cutting necessary, and the longer stalks are slightly shortened in. The closely pruned roses make such vigorous growth that they are able to resist attacks of insect enemies; the aphid or green plant louse seldom appearing and being easily kept down by syringings with tobacco water. Occasionally the slug appears and is readily detected by a skeletonized leaf. One syringing with an infusion of powdered white hellebore, a heaped tablespoonful in a pail of hot water (water allowed to cool) will usually prove effective.

The rose beetle can best be removed by hand picking, and may be dropped into a can half filled with kerosene—with pleasure to the picker and profit to the roses. The bark louse is usually found on old wood. It may be entirely destroyed, without injury to the plant, by brushing with a solution of corrosive sublimate, 1 grain to each fluid ounce of water, about 1 in 500.

VARIETIES.

The roses that have done best for me are in the Hybrid Remontant class, viz.:

Her Majesty,	La Rosiere,
Susanna M. Rodocanachi,	Charles Lefebvre,
Ulrich Brunner,	Rosieriste Jacobs,
Mrs. John Laing,	Duke of Edinburgh,
Mme. Gabriel Luizet,	Fisher Holmes,
Heinrich Schultheis,	Prince Arthur,
Eugenie Verdier,	General Jacqueminot,
Pride of Waltham,	Francois Michelon,
March. of Londonderry,	Duke of Teck,
Baroness Rothschild,	Magna Charta,
White Barouess,	Marg. St. Amand,
Merveille de Lyon,	Caroline d'Arden,
Mabel Morrisou,	Lady Helen Stewart,
Gloire Lyonnaise,	Marie Baumann,
Jeannie Dickson,	Marie Verdier,
Margaret Dickson,	Annie Wood,
Prince Camille de Rohan,	

There are a number of old favorites still retained, which I would miss greatly, such as Giant of Battles, John Hopper, Cheshunt Hybrid, Dr. Andry, Mme. Isaac Pereire, Paul Neyron, Xavier Olibo, Baron Bonstetten; but they do not all come up to the standard of the former list.

HYBRID TEAS.

La France,	Captain Christy,
Duchess of Albany,	Viscountess Folkstone,
Lady Mary Fitzwilliam,	Belle Siebrecht.
Caroline Testout,	

TEAS.

Comtesse Riza du Parc,	Papa Gontier,
Etoile de Lyon,	The Queen,
Francisca Kruger,	Kaiserin A. Victoria,
Hon. Edith Gifford,	M. Van Houtte, or Gem
Innocente Pirola,	Jules Finger,
Isabella Sprunt,	Duchess de Brabant,
Mme. Lambard,	Mme. Moreau,
Marie Chailot,	Alphonse Karr.
Safrano,	

These have all lived over a number of years and have been very satisfactory.

Of course I do not presume to say that these are the only roses that are worthy of cultivation in this vicinity; there must be many others, and I am earnestly trying to discover them. It is no exaggeration to state that I have grown five or six times the number of roses in the preceding list, and have discarded the greater portion, but I shall probably continue to try every promising rose I hear of until the pruning shears are laid aside.

Rose Notes.

Given good sturdy plants, the same set out properly in good well prepared soil, at the proper season and in the most approved style of house, and our battle is half won; but the old proverb, "Eternal vigilance is the price of success," will still apply, notwithstanding the favorable outlook. Perhaps watering and ventilating are the two items in rose culture that require the closest attention and the best judgment, and which if neglected or performed in an injudicious manner will make impossible complete success. A medium between dry and wet is the best condition in which to have the soil; too dry will tend to stunt the growth and too wet will sour the soil and arrest root action. I have found that in very warm weather frequent sprayings overhead are very beneficial; two or three hours of bright sunshine will generally dry up most of the atmospheric moisture left after syringing, and unless more is supplied the young plants are liable to wilt and suffer in consequence. It is not necessary to give more than one thorough syringing, at the same time watering wherever it may be needed; to simply take the hose through one path and throw water in a fine spray over walks, benches and all takes only a very little time and answers the purpose well. The frequent spraying coupled with an abundance of ventilation is what gives the large, heavy, luxuriant foliage we love to see on our plants, foliage that is almost proof against mildew. By the way, in regard to the latter, I have long since come to the conclusion that too much shade and too little ventilation produce a soft weak growth, and the least change in the atmospheric conditions of the house is followed by mildewed foliage. The fear of mildew and the consequent adoption of precautionary measures are in very many instances solely responsible for its presence. I remember one very clever man who was so terribly afraid of it that he would not allow any ventilation left on the roses during the night under any consideration, and I too remember well the disagreeable odor of the houses early in the morning when entered to open the sash. But this failed to ward off the pest, and sulphur was an indispensable article on that place. So very many men growing roses seem to be laboring under the impression that the rose is an exotic, and will not bear the least cool breath of air, when the fact is that it luxuriates only when given an



AZALEA EXHIBITION AT GHENT, BELGIUM.
THROUGH AMERICAN EYES.

abundance of it. It can be trained up as an exotic, but you'll always need the medicine bottle handy; given natural surroundings, however, it may be as robust and hardy as a geranium. During the early summer the rose house should have from three to eighteen inches of ventilation all night and full ventilation as early in the morning as the outside temperature will permit, and instead of being in danger of mildew you need scarcely give it a thought.

In the rush of planting the weeds must not be overlooked; no matter how our plants thrive the weeds will as a rule grow amazingly, and just as they are allowed to monopolize the space on the benches will the roses in like proportion suffer. They are very objectionable to the eye, impoverish the soil very rapidly and furnish an ideal place for red spider to get a foothold. It is a good plan to stir the surface of a newly planted bed lightly just as soon as the weeds appear and continue stirring once a week; it will be labor saved in the end, will keep the soil in good condition and help to insure strong sturdy growth.

ROBT. SIMPSON.

Lifting Bride and Mermet.

Can Bride and Mermet roses that are to be left in another year be shifted to other benches as successfully as La France and others of that type? Would you prefer to leave them where they are and depend on top dressing and liquid feeding? If shifted would you check them much before doing so? W. S. H. & Co.

Bride and Mermet can be lifted as easily

and will suffer as little as any rose that I know of. The second question can be decided easily by yielding to preference, they are just as liable to do well one way as the other. If lifting is resorted to the "off-crop" season will be very much shorter than would be the case if the plants were rested, pruned, and started up that way. Keeping them dry for a week or ten days, and then soaking and lifting would likely be the wisest thing to do, but is not absolutely necessary.

ROBT. SIMPSON.

Herbaceous Plant Notes.

Large groups of pæonies in a border, or when planted in good sized beds, make a most magnificent show while in bloom, but although their foliage continues in perfect health all through the summer and fall, the absence of flowers for many months from the middle of June to late autumn detracts much of the cheerful appearance of the border, and such a patch would look rather monotonous if not relieved by at least a few taller spikes of flowers coming up between them, therefore it is advisable in most cases to introduce some summer or fall blooming plants, or both in such beds. A large surface of even-colored green without variation in height or foliage must be avoided in the border if possible, every part of it should be made interesting at all times of the year, and the dark green of the pæonies happily serves as a most perfect groundwork for taller growing plants such as lilies of many varieties. The ground being shaded by the dense foliage of the pæonies, the soil is kept cool, and if a mulching of some sort is spread over

it, the moisture in the ground is retained much longer than would be the case without this precaution, and under such circumstances the lilies will always do well.

Lobelia cardinalis will flourish under the same treatment, and the tall spikes of vividly colored flowers above the dark foliage of the pæonias produces a remarkable effect while the flowers last. *Galtonia candicans*, with its pretty bells of pure white, so profusely distributed along the stems of the pyramidal panicles, is not less attractive than the highly colored lobelias, and will do for many years there undisturbed. The bright yellow *heliopsis* in several varieties are charming plants to plant between, but must be taken up and divided every three years or else they would grow to a dense mass, crowding out every other plant, even a pæonia. The tall *Delphinium hybridum*, also is well adapted for planting in between such patches, and the various shades of blue in their flowers, which are produced in profusion on such tall pyramidal spikes, will surely be admired, especially, if the very light and soft blue with white or dark center is predominating.

The boltonias are also excellent for this purpose and the taller growing asters look grand and do well there. Golden rods grow fine among the pæonias and are easily kept in bounds, their feathery inflorescence keeps in perfection for a long time. The tall *Helianthus orgyalis* does not bloom until late in the season, but the stems clothed with their numerous narrow and long, recurved leaves are remarkably graceful during the summer months, contrasting well with the darker and massive foliage of the pæonias, and

when the golden yellow flowers appear in autumn and spread loosely over the bed in all directions it is a sight seldom equalled by any other combination planting in a border.

Aconitums, the purple as well as the yellow ones, may be planted here and there in the patch, and both colors mixed form a grand combination. The free blooming *Helenium autumnale* is one of the best and most showy things we have in fall to enliven the borders and break the monotony of somber green patches. *Coreopsis tripteris* with its brown and yellow flowers on tall and slender stalks is another plant which is admirably adapted for such a place, and *Hibiscus militaris* or *H. moscheutos*, sparingly introduced among the *pæonias*, will brighten the patch in midsummer as well as in the fall.

For immediate effect, in a bed where no provisions have been made for a succession of bloom, we have planted *gladioli* in clumps at intervals of about five feet, preferring the pink and lighter shades, with good results. Beds of hardy azaleas and *rhododendrons* or *kalmias*, which, however attractive they may be in the early part of the season while in full bloom are devoid of flowers in summer and fall, may be interspersed successfully with the same or other hardy flowering plants, and thus be made an interesting and prominent part of the flower garden at all seasons. There is an unlimited quantity of plants to select from, and those mentioned above are only a few of the many which have proved reliable when planted between such masses of compact foliage as *pæonias* are apt to produce under ordinary good treatment.

J. B. KELLER.

Rochester, N. Y.

New York.

Dull times prevail about the flower stores. The funeral of the murdered bank president, Wyckoff, made a call for considerable nice work, in which several of the Broadway florists participated. The much discussed Vanderbilt wedding was expected to use up a large quantity of flowers, but now that the affair has been declared off it transpires that the reports of the number of flowers which had been engaged were greatly exaggerated. Orders are beginning to come to the wholesalers from Saratoga and other popular watering places, and more good stock could be sold at present if it were obtainable. But if there should come a sudden heavy demand for choice stock of any kind it would be met with difficulty, for there is little being received except rubbish. Roses are especially poor and badly mildewed. The two indispensable summer roses, *Meteor* and *Kaiserin*, now come to the front, and he who has a stock of them experiences no difficulty in finding good customers. *Auratum* lilies, *feverfew*, *gypsophila*, *larkspur*, etc., hold forth in enormous quantities at the market, but the listlessness noted elsewhere prevails here too, and the visitor on a hot morning is prompted to tarry at the entrance, half impelled by the tempting poetical announcement displayed by a sidewalk vender:

"This is the very spot

Where fine fruits and lemonade to be got"
in preference to ascending the tiresome flight of stairs. Among the plant growers there is considerable talk of a scarcity of palms in the smaller commercial sizes and prices have advanced from 25 to 35 per cent on some sorts already. It is said that the stock in Belgium is about cleaned out.

The combined show of the New York Florists' Club and New York Gardeners' Society, which took place at the Newsboys' Lodging House on Saturday afternoon, June 20, while making no pretensions as an exhibition, brought out several very nice exhibits, among which that of W. A. Manda was particularly prominent. A hybrid of *Rosa Wichuraiana* with double white flowers and dwarf habit gave promise of becoming a valuable addition in its class. There was a big vase of *Crimson Rambler* from Pitcher & Manda, also a good display of hardy herbaceous flowers. M. H. Walsh and Ferd Boulon both made extensive exhibits of hardy roses, and there were whole tables of sweet peas and promiscuous cut flowers from many other contributors, all of which were fittingly recognized with medals or certificates by the committee. Piled up at one end of the room were bushels of seed packets and bulbs donated by various seed dealers, and in a lower hall were thousands of potted plants which had been sent in with characteristic liberality by florists and gardeners all around. The distribution of these to the poor children who throng the neighborhood was an occasion full of interest and considerable entertainment, lasting for about three hours, at the end of which time the last scrap of green leaf had been cleaned out of both halls. The exercises opened with a few remarks addressed to the assembled children by Judge Jeroloman, who appeared for the mayor of the city, and was introduced by ex-Alderman Morris in his usual felicitous manner. A score of volunteers were soon at work handing out the plants and seeds to the tots who came in all degrees of cleanliness and otherwise, some hatless, some shoeless, some carrying tots nearly as big as themselves, but all wearing the same expansive smile. It was a great day for them, and they behaved as well as could be expected under the circumstances. Out in the street there was a perfect mob of youngsters by the thousand, who pushed and struggled in their eagerness to get into the halls, and it looked for a time as though the wild and excited throng would overwhelm their guardians and serious results follow. That any well-dressed grown person could be guilty of taking away a single plant from such a place and amid such surroundings seems almost beyond belief, but a number of such instances were noted. One finds the "hog" everywhere.

The awards at the show were as follows: Certificates of merit were awarded to Siebrecht & Wadley for display of cut flowers, consisting of garden and greenhouse blooms, among which were some finely grown orchids; to Pitcher & Manda for handsome vase of *Crimson Rambler* rose; to H. Steinhoff, West Hoboken, N. J., for group of choice *gloxinias* in pots; to Henry Miller, East New York, for group of 50 pots of *dahlia Camelliaeflora*; to W. A. Manda (New York Gardeners' Society certificate) for new rose "Manda's Triumph," a hybrid from *Wichuraiana* and an unknown *H. P.*

Silver medals were awarded to Ferd Boulon, Sea Cliff, N. Y., for collection of roses, including some rare old varieties not often seen in this locality; to Pitcher & Manda for display of herbaceous perennial flowers.

In the section open to amateurs only silver medals were awarded to Wm. Anderson for vase of roses arranged for effect and for display of sweet peas; to John Shore for display of hardy herbaceous flowers; to I. L. Powell for display of *pæonies*; certificates of merit to George

Breed for display of Japanese iris, and to Samuel Leuba for display of sweet peas.

In the free for all section two silver cups were awarded, one being given to Geo. B. Winslade for general collection of cut flowers, consisting of 50 vases of stove, greenhouse, and hardy herbaceous blooms; the other to M. H. Walsh, Wood's Holl, Mass., for display of roses. Mr. Walsh's display, which was of fine quality, included 75 distinct varieties.

At a meeting of the trustees and special committee of the New York Florists' Club last Monday it was decided that in view of the great difficulty in providing a suitable hall no distinctively Florists' Club flower show should be given next fall, but it was urged that the individual members should use every effort in making a creditable display at the American Institute Fair, to be held in Madison Square Garden during October.

One of the loveliest spots in New York City is Woodlawn Cemetery. It is on the line of the Harlem and the New York, New Haven and Hartford railroads, and the entrance is well guarded by two florists' establishments—Weimar Bros. on one side of the track, who also have extensive greenhouses at Mt. Vernon, and Wm. Nilsson on the other. On approaching the station the first thing to attract the eye is a representation of a train of cars worked in *echeverias* and *alternantheras* on the sloping grass bank in front of Mr. Nilsson's establishment, the picture being well executed and attesting Mr. Nilsson's skill in this special line of work. Inside the greenhouses and frames one finds at this date but little left of the enormous stock of *echeverias*, etc., which are required for Mr. Nilsson's spring work in the cemetery. He states that he has used no less than ten thousand *echeverias* this season, and other bedding plants in proportion. *Alternantheras* in several varieties are unusually bright colored this season, and are used with brilliant effect in connection with English ivy, *alyssum* and *echeverias* for formal edgings to lots and graves.

The cemetery occupies a beautiful undulating piece of country; the lots are attractively planned, and many large oaks, maples and spruces add to the beauty of the landscape, which is somewhat marred by the many extravagant granite mausoleums, some of which are architecturally grand, others both obtrusive and ugly. On the vaults are seen the names of such men as Gould, Oelrichs, Corbin and Morosini, and in one lot overgrown with myrtle and decorated with American flags lie the remains of DeLong and his unfortunate Arctic companions. There are frequent groups of robust *rhododendrons* and a great many Japanese maples are used with good effect, and seem to thrive all right. Tree box is also extensively planted about the grounds, and there are many handsome specimens of golden yew. Standard *hydrangeas* are very popular, and make a big show later in the season.

Duncan Ross, formerly of the firm of Ross & Millang, wholesale florists, died on June 18 after an illness of one week. Mr. Ross came to Flushing fourteen years ago, where he was in business with his brother, Peter Ross. He afterwards went into the commission business with Frank Millang at 1168 Broadway, New York, with whom he was associated six years. Recently he has been in the real estate business. His age was 47.

George Comatus, a Greek florist at 20 Broadway, Brooklyn, has invoked the aid of the law to remove two street stands conducted by Paraso George



WATERING AZALEAS. GHENT.
THROUGH AMERICAN EYES.

Epitropees, a fellow countryman at 14 and 26 Broadway, on the grounds that they obstruct business. "When Greek meets Greek," etc.

Alex. S. Burns has been notified that a balance of over \$1,100 stands to his credit at one of the savings banks, the accumulation of interest on a small deposit made twenty-one years ago, of which Mr. Burns had no recollection. Not many florists are likely to have this happen to them.

John A. Scollay is building a fine range of houses at Hyde Park for F. W. Vanderbilt, comprising four rose houses 18½x90, one violet house 10x114 and a mushroom house 16x48.

There is double rejoicing at Butler's store on Broadway. A new girl has arrived at Mr. Butler's home, and a new boy at Bennie Ezekiel's.

Two Broadway florists' establishments had the fortune to be selected as subjects for the colored supplement to last Sunday's New York *World*.

John Marshall attended the flower show on Saturday equipped with a thermometer inside his hat, which he consulted frequently.

H. C. Neubrand has sold out his florist store at 181 Columbus avenue.

P. H. Scudder of Glen Head has gone on a fishing trip to the Adirondacks.

Boston.

The annual rose and strawberry show, which was held on June 23-24 at Horticultural Hall, compared favorably with the best of its predecessors, and the quality of the roses went far ahead of those shown last season. Had it not been for the two very hot days, Saturday and Sunday preceding, the roses would undoubtedly have been the best seen here for many years. As it was, a few days earlier would have been a better date for both roses and strawberries.

As before, the largest and best display came from Wood's Holl, and Mr. Walsh again demonstrated his exceptionable abilities as a grower of outdoor roses. The collection comprised an unusually

large number of varieties, and all the favorite sorts were seen at their best. Mr. Walsh's exhibit of outdoor grown hybrid teas was good, and the size and finish of the blooms of such varieties as Pink Rover, Caroline Testout, Aug. Guinoiseau, La France, Cheshunt Hybrid and Kaiserin Augusta Victoria bore strong witness to the favoring weather of Cape Cod.

James Eaton, Jr., Dr. C. G. Weld, Mrs. J. W. Clark, James Comley, W. H. Spooner, Mrs. E. M. Gill and P. Kane were all large contributors also, and helped fill the long tables with splendid blooms. The classes arranged for varieties introduced since the year 1893 were not filled, which was quite a disappointment, as these classes are among the most interesting in the schedule. The Dawson hybrids of *Wichuraiana* and multiflora were again shown and greatly admired, as was also W. A. Manda's *Wichuraiana* hybrid, which received the award of honorable mention.

The orchids were strong rivals for the roses in the public favor, judging by the crowds that incessantly surrounded them. A large group of cattleyas and *lælias* from E. O. Orpet, gardener to E. V. R. Thayer, almost took the breath away from some of the old experts. Seldom, if ever, have such well grown and splendidly flowered specimens of *Cattleya Gaskelliana* been seen here. Especially grand was *C. Gaskelliana virginalis* with its wealth of lovely white blossoms, and a complimentary notice was awarded to an *Odontoglossum crispum*, a lovely form almost pure white.

Wm. Thatcher, gardener to John L. Gardner, was represented by a fine group of *miltonopsis*, *odontoglossums*, *cypripedes*, etc., and hard wooded greenhouse plants in bloom. P. Murray, gardener to W. P. Winsor, a new exhibitor, also staged a good group of orchids; and Wm. Martin, gardener to N. T. Kidder, showed *Schomburgkia tibicinis*, the gaily colored flowers attracting much attention from visitors.

Sweet williams from W. H. Cowing, M. T. Stevens, E. Sheppard & Sons, Oakes

Ames, S. J. Trepas, W. E. Coburn and Dr. Weld were better than ever and showed remarkable diversity of color and markings. Carl Blomberg, gardener to Oakes Ames, was on hand with a tank of hardy *nymphæas*, and filled the front of the stage in the lower hall with a promiscuous display of cut flowers. L. W. Goodell also had a tank of lilies. Rea Bros. showed an extensive collection of hardy perennials. *Coreopsis grandiflora* was commented upon as being a sterling acquisition, and Oriental poppy Silver Queen was also favorably noticed. John Jeffries got a silver medal for a display of Japanese *pæonies* gorgeous to behold.

Strawberries were shown in rather less quantity than on some former occasions, but they were very fine. The Marshall took the highest honors, and there were many promising seedlings shown. W. C. Winters' Muscat and Hamburg grapes were good, one bunch of the latter weighing 6¾ pounds.

Cut flower trade continues somewhat depressed, but roses and carnations are now getting scarcer owing to the general replanting of rose houses and the effect of hot weather on carnations. The annual order for school graduation bouquets has been distributed as usual among a number of the city florists, who will have several hundred bouquets each to make for the celebration, which occurs on June 27. Outdoor roses will be about entirely gone at that time, and the forwardness of the season will make suitable stock for the purpose scarce.

The reunion and strawberry festival of the Gardeners' and Florists' Club will take place at Horticultural Hall on Monday, June 29. Tickets are selling well.

Visiting Boston: P. O'Mara, New York; E. O. Orpet, Lancaster, Mass.; and D. MacRorie, South Orange, N. J.; A. B. Scott.

Philadelphia.

The summer stillness is setting in, so still in fact, as to be almost painful. The hustlers have a great time getting rid of their stock and prices are down to the lowest notch, in fact some say that they can scarcely get car fare out of the returns. Roses are getting poor, especially Maids. Testouts, La France, Meteors, Niphetos and Kaiserin are fairly good and there are a few good Beauties, although they seem to open very easily these days. Carnations are in fair condition. Scotts being of good color and size lead in demand. Valley is good and sells as well as anything. Prices of roses are: teas \$1 to \$3, Beauties \$4 to \$12 per hundred. Achillea, candytuft, sweet peas and pyrethrum help up the assortment. There is plenty of asparagus, smilax and adiantum.

A. Boerner, of Broad St. Floral Emporium, sold his stock and fixtures at public sale last week and now holds the houses and lease, having some five years to run, for a purchaser. This should be a good location, being on Broad St. near South, a good business street. Mr. Boerner has a position as superintendent of construction of a new line of railroad and is anxious to close his business up in the city.

The growers are all busy getting their houses in condition, repairing and planting for the fall trade.

Robert Craig is building a house 150x14 in place of one torn down and is removing three others to make room for more modern structures. He has a fine stock of araucarias, which are now growing rapidly and will make a fine size for retailing by the time the season opens again.

Jacob Becker has just reduced the height of one of his houses by some eighteen inches. To do this he lowered the ridge pole and then cut off the upper end of the sash bars to fit. His stock of roses for summer cutting looks well and he will soon have them on the market. August Lutz is rebuilding one of his houses, putting in lighter strips and larger panes of glass.

Baseball is now agitating the minds of some of the boys. A nine from among the commission men visited the Lansdowne growers recently and while they did not win gave them a good argument. Last Saturday the Chestnut Hill enthusiasts crossed bats with the Craig nine at 49th and Market and were defeated 11 to 14. There is to be another game at Chestnut Hill in the near future and great things in the baseball way are predicted.

John Westcott and Jacob Becker are off to Weirtown for a few days' fishing.

The Gun Club is holding its own in great shape. The members accepted a challenge from the strong Forest Club, who sent a team of five men. Five of the florists' team of ten were selected, and defeated them by a score of 94 to 66, 25 targets to a man. The second five of the florists shooting at the same time also made enough to have defeated them, their score being 76.

At the regular shoot of the club Wednesday last George Craig strengthened his hold on the Donaldson medal by winning it the second time; he is the first member to have this honor. His score was 18, which with his handicap of 6 made 24, enough to win from G. Anderson, the scratch man who made 23; C. D. Ball 17, Thos. Cartledge 12, John Burton 21 and A. B. Cartledge 18. K.

St. Louis.

The season practically ended with the closing of the schools next week, but not with a great rush. Convention week did not bring much to the florists, and what little it did bring was only to the downtown stores. Seven weeks of rain is hard on the growers, and they are all complaining of too much water.

Sunday afternoon we had another small cyclone, which did damage to St. Louis park to the extent of \$200, but no other damage was reported to florists or the other parks.

Replanting has begun in some places; others will follow soon, and this will make stock scarce for a time. Just now stock is in good supply and the only thing sought after is A 1 material, which is hard to obtain, in fact a first-class rose is an unknown quantity. Here and there we may note a small lot of Kaiserin, which is a superb summer rose, or a few fair La France and Meteor; these varieties readily sell at \$2 to \$4. Carnations are light in demand and the price is still \$1; some fancy go at \$1.50. Sweet peas now from the open ground continue to flood the market, and there is practically no market quotation of this flower. There is little or no demand for the rest of outdoor stuff.

It has been announced that all the special prize subscribers of the last year's show have fallen in line again and have renewed their subscription to the chrysanthemum show for '96.

Mr. Henry G. Standen, wholesale florist of Haverford, Pa., was a visitor last week.

The news of the selection of St. Louis for the twenty-second meeting of the American Association of Nurserymen

next June was received with joy by the local nurserymen and florists.

The Jordan Floral Co. will move from their present location, 706 Olive St., July 1 to 822 Olive St., opposite the postoffice and under the meeting hall of the St. Louis Florist Club.

Ellison & Tesson recently made a casket cover which contained one hundred catleyas and two hundred lily of the valley; it was much admired.

The death of August Rolker was read with profound regret by the St. Louis florists; he was well known among us in St. Louis, and all extend their sympathy.

Lafayette Park, recently destroyed by the cyclone, is fast regaining shape. One hundred men are at work remodeling the fine iron fence and carting away the broken trees. Supt. Hunt reports that replanting will begin soon, and he will try and make it look as much like its former self as he can. Those large fine trees will be missed by all.

The Bowling Club was deserted Monday night, owing to a great rain storm, which looked very much as though another cyclone was coming, and the bowlers thought that home was the best place. The picnic committee was to have had a meeting but no meeting could be held, so the scores and the report of the picnic will have to go over until the next meeting, if it don't rain or look like a cyclone.

J. J. B.

Pittsburg.

The Florists' Club held a very interesting regular meeting at their rooms in Allegheny. All were very well pleased with spring trade in plants, several remarking it was the best they had had for several years; prices too were in the main satisfactory. Five applications for membership were filed, and will be acted on at our next meeting. After the transaction of the routine business attention was called to a state of affairs that has become a positive abuse and some of the Allegheny florists claim has become a source of loss financially to them. This abuse consists of the competition in the florists' business by men who are employed by corporations, such as public parks, cemeteries and railroad companies, and who, being under salary and under no expenses, can afford to undersell (and do it too) those who are engaged in the trade as a legitimate business. It was stated that the man who grows flowers at the County Workhouse has frequently undersold the regular florists, and only recently solicited and secured the order for supplying flowers required by the Allegheny organization of the society Daughters of Liberty at a very much lower figure than anyone in the trade could touch, and the man in charge of the Pennsylvania Railroad Company's greenhouses was doing the same thing, also furnishing decorative plants at the houses. It was stated that no one knew of any being sold from the park conservatory, but that city officials or men with political influence could get all the flowers they wanted from the park for nothing when giving a reception or social entertainment; that as the parks belong to all the citizens it is very unfair to those who cannot get them, as well as to every florist. The discussion on the above state of affairs was very animated, nearly everyone taking part in it; instead of adopting the very vigorous resolution that was offered a committee of three, Samuel McClements, Fred Burki and Julius Ludwig, was appointed to investigate the matter and call upon the County Commissioners, railroad officials and

superintendent of park, and endeavor to have the trouble remedied. Several members stated that their business had suffered for two years in consequence of the illegitimate competition mentioned, and that they now proposed to adopt very vigorous measures in trying to put a stop to it if the committee did not secure redress. A committee was also appointed to see about transportation, badge, etc., for the trip to the S. A. F. convention at Cleveland. Messrs. Reineman, Bader and J. Ludwig were appointed a committee to arrange for a club picnic; this will be an innovation on our former ones, as it is proposed that the wives, sisters, cousins and aunts, etc., of the members will be asked to assist us; previously our picnics have been "stag" affairs only. The next meeting of the club on the 25th inst. is intended to have the "social" feature with it. If any visiting florists are in town then they will find it to their advantage to come and see us on that evening.

Mr. M. C. Dunlevy, Carnegie, Pa., reports that his son Harry and his man Paul Andrew have settled with the Gas Line Co. for their injuries, caused by the explosion of gas some time ago. In this case all damages have been satisfactorily adjusted without any suits. Mr. Harry Dunlevy's hands are still very tender from the burns, but will be all right in a short time. Mr. Dunlevy has arranged so as to have all his houses in proper shape for the coming season; his friends hope he has had his share of misfortune, and all wish him success.

The National Saengerfest is over, and I regret the influx of strangers did not improve the florists' business for flowers to any great extent. The cut flower demand has only been fair, but this week has seen several fairly busy; all hope the slight improvement will continue.

Mr. Fred Burki, Bellevue, Pa., reports trade fair. He has been cutting lilies for some time, and his stock is about done. He has been busy clearing out several houses, putting them in order for fall stock, etc. He is cutting a large amount of roses, etc., and keeping up his reputation as one of our most successful wholesale growers; his stock is always classed as A 1.

Mr. James Semple, Bellevue, Pa., is in a happy frame of mind this week; he says his plant trade was fine, very fine indeed, and while he did not sell completely out the stock left is not great enough to worry him any, for the demand still keeps very fair.

Mr. Robert Faulk, who handles Hartman Bros' stock in the market, reports a big trade done in plants in volume, much more than recent years.

J. E. Harrison, with Hoopes, Bro. & Thomas, West Chester, Pa., was with us in the early part of last week. He reports trade only fair in nursery line; collections quite slow.

The past week has shown an improvement in the florists' business, nearly everyone reporting an increase in demand and being busy. School commencements and June weddings have been the principal causes of the improvement, and better prices were obtained for some varieties of flowers, roses particularly.

A large amount of work is being accomplished at the parks this summer. At Highland Park Superintendent Geo. W. Burke has the many improvements well under way, they mostly consisting of construction work. Three bridges of stone, one with a driveway underneath leading from main entrance, affording a convenient route to the new \$125,000

"Zoo" to be erected this season, is only a portion of the work projected; the many new driveways are mostly down to sub-grade now, and curbing, macadamizing and drainage will be the principal work from now on. The floral attractions this year at this park are on a different line from those of last season when the S. A. F. were so pleased with them. There are very few set designs; generally they are scroll patterns, and having the reservoir banks to display on, show up remarkably well, and are generally admired. In the future this park will divide attention with the larger Schenley Park, becoming one of the city's great attractions.

Mr. N. Patterson has not fully recovered from his sickness in the spring, and is now up in Michigan recuperating, and at last accounts was doing well. Mr. Flemm, who is in charge of his store, reports a good trade all this month, in fact busy.

Mr. John Bader, who has been on the sick list since the death of his wife, left this week for Mt. Clemens, Mich. His many friends hope the change will enable him to return fully restored to health.

Mr. Gustave Ludwig displayed some very fine water lilies this week, pink, white and yellow, from Washington, D. C.; the demand was good for them at \$1 per dozen. He also secured the decorating of Turner Hall for the Knight Templars on St. John's day; with several wedding decorations this week he has been full of work.

Mr. O. C. Oehmler, secretary of the club, met with a very severe loss this week in the death of a little daughter two and one-half years of age. All his friends deeply sympathize with him in his trouble, and hope also to hear soon of Mrs. Oehmler's improvement, this having completely prostrated her.

The weather this month has been very rainy and hot, rain nearly every day; everything is growing admirably, but now all are wishing a let up in the rain department, as we are getting a little too much of a good thing.

A very important meeting of the club is called for the 25th; it is hoped the attendance will be good. A social is to be held after the business meeting adjourns.

Mr. Rice of M. Rice & Co., Philadelphia, was with us the early part of the week.

REGIA.

Buffalo.

We have been going along in the same old fashion for the past two weeks; occasional light showers keep the dust off the leaves, but it is decidedly dry, and we need a big and penetrating rain. A drive round the city parks a few days ago showed me that at last we will have good flower beds in our parks. Capt. Braik, our assistant park superintendent, is a gardener from the word go, and knows that there are people in this world who are not highly educated enough to appreciate the sylvan scenery of grass and trees, but can glare with satisfaction on a bed of red geraniums. While it is perfectly proper to teach or lead the masses to a higher education, you must cater to their plebeian taste, or they will get the sulks and won't be led.

Buffalo has been a little overdone with carnations the past two weeks, at least the price they were sold at would lead you to suppose it. Two well-known firms on Main street whose stores are side by side played a game of poker with this beautiful and popular flower; one of them dropped from 40 cents per dozen for the finest grade to 25 cents, then the

neighbor saw him and put up a sign 10 cents. Then the public next day had a chance to buy the best of carnations at five cents a dozen. They have got over it and both are sorry, but it does harm. How easy to drop in price, and how difficult to raise it. The crop of June weddings has not been too abundant, and have not been of social importance enough to make flowers scarce. Wise Bros. of East Aurora are sending in grand carnations, and they realize a price that is gratifying for the time of year.

We had a call this week from Mr. James Kidd of California. When he talks about 300 acres of sweet peas for seed you naturally wilt, but when he says "that's nothing there, a man next to us has 2,000 acres of onions for seed," you feel better and are prepared to believe that Jonah did actually swallow the whale, or vice versa.

Our town is large enough now for Harry Basley to spend a whole week in. The day after his arrival a telegram came to my care with the news that Harry had been appointed a park commissioner of Detroit. I wrote to Mayor Pingree congratulating him on his wise selection, for which I received a most courteous reply from his honor, the world-wide known mayor of Detroit. The office is purely honorary, but it would be well if other mayors would appoint practical men. A florist or perhaps two should be on all park commissions, and would be far more useful to the city than the fossils who too largely are found on the board in every city.

W. S.

Toronto.

The Gardeners' and Florists' Association held its usual monthly meeting last Tuesday. The room was not crowded, but there was a quorum without counting Michael O'Sullivan's bull pup, and an interesting two hours was spent. A committee was appointed to make arrangements for an excursion—probably to the Guelph Agricultural College—sometime early in July. A big crowd should take in this excursion.

Trade has about gone up Salt Creek for the summer.

E.

MACEDON, N. Y.—Miss Edna L. Arnold intends building a greenhouse this summer; it will be devoted to flower growing for local trade.

LOUISVILLE, Ky.—C. A. Waered retires from the firm of F. Walker & Co.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By an all round Scotch florist; 18 years' experience in roses, carnations, palms, ferns and mums. Age 45; married. Address X, care American Florist, Chicago.

SITUATION WANTED—By a first-class florist and gardener; 16 years' experience; married, no children; age 31. Private place preferred. Address E M, care American Florist, Chicago.

SITUATION WANTED—As foreman. A life experience in growing roses, carnations, violets, palms, ferns, mums, and general greenhouse stock, forcing of bulbs, shrubs, etc. References to responsible parties. GROWER, 129 N. Clark St., Chicago.

SITUATION WANTED—By an experienced florist well known in the trade, to take charge of commercial place—wholesale or retail. Thoroughly experienced in roses, carnations and mums. Age 30, single. Address G E B, care Chas. W. Helmers, 329 Fourth Ave., Louisville, Ky.

SITUATION WANTED—As foreman or manager: a first-class grower of roses, carnations, any kind of cut flowers, plants, and propagating. Palms and mums a specialty. Well up in design work and decoration, and fine landscape gardening. German, honest and sober; 5 years on present place. Best of references. EVERGREEN, care American Florist.

WANTED—Good rose grower. Address at once REINBERG BROS., 51 Wabash Ave., Chicago.

WANTED—An all round florist; experience at cut flower work; good salesman; willing to work; single; good habits. Apply with references. GOLD, care American Florist, Chicago.

WANTED—A good all around man, not afraid to work, for roses, carnations, violets and mums, also bedding stock. Must be single. State wages with board. Work all the year round. Give references. Address Box 134, Oconomowoc, Wis.

WANTED—Good florist and gardener to take charge of Scotch gentleman's place. Grounds 3½ acres, garden 1 acre, greenhouse 8x20 feet. All help needed given. Place is very quiet, and only suited to a settled man. Scotchman or Englishman preferred, with good recommendations. Living cheap; climate splendid. A good house, firewood and \$40.00 monthly. Address B. J. FISHER, Ashboro, Randolph Co., N. C.

FOR SALE—An 8 section Carnody hot water boiler in good condition. Address W. H. DRUSE & Co., Beardstown, Ill.

FOR SALE—No. 8 Furman steam boiler, in good condition; will heat 800 square ft. of glass. Price \$250. W. M. LOTT, Warren, Pa.

FOR SALE—Two Hitchings boilers No. 16, been in use about 5 years; in good order. Will sell reasonable. Address Box 201, Wellerley, Mass.

FOR SALE—At half price, three greenhouses, stock, boiler, pipes and everything belonging to it, if applied for soon. W S P, care American Florist.

FOR SALE—2 small greenhouses, size of lot 170x333 feet, east front; 8-room house, barn, etc., water plenty; nice property. For particular address CHAS. J. DIEHL, Norwood Park, Ill.

FOR SALE—Four greenhouse; two 11x75, one 19x75, one 22½x75, and two lots 100 feet front, 123 feet deep, and a good stable. The houses are heated with hot water. Address R 1, care Am. Florist.

FOR SALE CHEAP—Extra good second-hand 3-inch bolt-n tubes, 12 feet long with collars for packing. They take the place of cast iron pipe for hot water at less than half the price. W. H. SALTER, Rochester, N. Y.

FOR RENT—Four nice greenhouses with some stock, retail and wholesale; between two cemeteries; half acre land. Rent \$300 a year, including dwelling, heating, repairing and board for a man. W. PFUND Altenheim, Oak Park, Ill.

FOR SALE—The Anthony Greenhouses, long established, popular, well known greenhouse and cut flower business, well stocked. A bargain. Terms reasonable. Address DEAMUD, care Vaughan's Seed Store, 81 Randolph St., Chicago.

FOR SALE—A bargain: two greenhouses 100 ft. long, in Macomb, Ill., heated with hot water; hotbeds, sash, tools, wagons, two horses, a large stock of plants, a good established trade, in a good city; 3 years' lease on the ground free. Four acres of growing vegetables. All for \$1,500. I. L. PILLSBURY, Galesburg, Ill.

FOR SALE CHEAP—Whole or half interest in a first-class florist establishment, an area of 40 sq ft. of land, with one new greenhouse and hotbeds, also dwelling with barn, in a city of 8,000 to 10,000 inhabitants. Land lies between two streets. Answers received in German, Norwegian or English. For further particulars address CHR. MARXEN, 1236 Sixth St., Beloit, Wis.

"ROSE LEAF" Extract of Tobacco INSECTICIDE!

PRICE: 1 gallon can, \$1.50; 5 gallon can, \$5.00.
Applied either by vaporizing or by syringing. Try it.
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400 BELLE SIEBRECHT, 2½-in. pots, 4c
1000 BRIDES, 2½-inch pots, 3c
500 METEORS, 3-inch pots, 4c

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HINSDALE, ILL.

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Subscriptions accepted only from those
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Inch, \$1.40; Column, \$14.00.
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Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN
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wares pertaining to those lines ONLY. Please to
remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to se-
cure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

Chicago.

During the past week school commence-
ments kept the florists busy, and stock
moved off very rapidly. The city schools
had largely selected the La France rose
for their class flower this year, but as this
is almost out of cultivation they had to
content themselves with substitutes.
Red roses were mostly in demand;
Meteors and Beauties, but Bridesmaid
sold wonderfully well also. Good stock
was no more plentiful than last week,
much of it being very poor. The prices
averaged the same as last week. Carna-
tions went very well, and some excellent
flowers were seen; in these white sold
better than red. The went for \$1 to
\$1.50 for extra stock.

All the cheaper flowers continue very
plentiful. Asters are not very good in
quality; they sell for \$1 a hundred. Core-
opsis, cornflowers, pond lilies, sweet peas
and candytuft are in abundant supply.
Lilium auratum, very good, sells for \$1.50
a dozen; longiflorum \$1 a dozen. Candi-
dum is very plentiful, and moves slowly
at \$2 to \$3 a hundred. There is little
demand for it, and only the very best
sells. The demand for good quality corn-
flowers has been good ever since the season
opened. Some showy Kämpfer's iris are
seen.

It is, of course, to be expected that next
week there will be a decided drop in the
market. The school commencements are
now over, and trade must drop to the
midsummer level. It will be remembered
that last year the city schools called for
an extra quantity of red roses, Meteor
being the class flower. Local florists
were kept quite busy, and shipping orders
finished up the stock.

Much replanting is going on at present,
which will soon shorten up the stock.
Carnations have continued to hold their
quality usually well this season.

Visiting Chicago: Herman Berkhan,
New York; Edwin M. Haven, South
Haven, Mich.

Rochester, N. Y.

We had very warm weather during the
past week, usually those hot spells are
marked by a falling off in the sales of cut
flowers, but the florists did not have very
dull times, few of them had cause for com-
plaints. The average sales of the week
were certainly good for this time of the
year, and hopes are entertained that this
favorable state of affairs may continue
for a while longer. Still the time is near
when all the help in the stores may take
things easy and enjoy a well earned rest
for a few months. June weddings have
been unusually frequent this year and are
still quite frequent; most of them call for
table, house and church decorations and
prove a source of profit to our florists,

who really deserved this unlooked for
activity in the trade, for since Eastertime
until lately the sales in flowers were
rather below the average. Although cut
flowers are very plenty, all good stock
found ready purchasers at fair prices.
Smilax and asparagus is still very scarce.
Lilium candidum is plenty, L. chalcidoni-
cum and L. tenuifolium are seen here and
there in the windows and sell at sight.
These bright colored lilies should be
grown more largely. Outdoor flowers
come in large quantities and as the
weather has been very favorable for their
perfect development, they are of good
quality and last well. Iris Kämpferi is
especially fine this season, the English
iris also takes well in this city and prob-
ably would in other places, but it does
not bear shipping for any great distance
unless packed with the utmost care.

Another florist's wedding took place
here last week, when Mr. Edwin Wilson
was united with Miss Lilian Thomas on
June 17. The groom is a son of E. Wilson
and has charge of his father's store in
Main street. Congratulations are offered
by all the Rochester florists.

Mr. Harry Balsley, the well known
pottery man of Detroit was a visitor in
town this week, making his usual rounds
among the florists. J. B. K.

PLEASANT HILL, Mo.—Geo. M. Kellogg
has added five new houses 28½x250 with
16x20 glass.

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Cut Flowers.

NEW YORK, June 23.	
Roses, Beauty.....	1.00@15.00
" all other varieties.....	.50@ 4.00
Carnations, ordinary.....	.25@ .50
" fancy.....	.50@ 1.00
Sweet peas per 100 bunches.....	1.50@ 3.00
Valley.....	2.00@ 4.00
Harrisli.....	4.00@ 6.00
Mignonette.....	.50@ 1.00
Adiantum.....	.75 @ 1.00
Asparagus.....	40.00@50.00
Smilax.....	8.00@10.00

BOSTON, June 23.	
Roses, Gontier, Niphetos.....	1.00@ 2.00
" Perle, Mernet.....	2.00@ 3.00
" Bride, Bridesmaid, Meteor.....	2.00@ 4.00
" Beauty.....	5.00@15.00
Jacqs (outdoor).....	.50@ 2.00
Carnations, fancy.....	.25 @ .50
".....	.30 @ 1.00
Valley.....	4.00
Longiflorum.....	6.00@10.00
Mignonette.....	.50@ 1.00
Sweet peas.....	.25@ 1.50
Adiantum.....	1.00
Smilax.....	15.00@20.00
Asparagus.....	60.00

PHILADELPHIA June 23.	
Roses Beauties long.....	10.00@16.00
" medium.....	8.00@15.00
" short.....	2.00@ 5.00
" Brides, Bridesmaid, La France etc.....	2.00@ 4.00
" Kaiserin.....	3.00@ 4.00
Carnations, fancy.....	1.00
" first quality.....	.50@ .75
Sweet peas.....	15.00@20.00
Smilax.....	35.00@50.00
Asparagus.....	1.00
Adiantum.....	1.00

CHICAGO, June 23.	
Roses, Beauties.....	8.00@20.00
" second.....	4.00@ 6.00
" Brides, Bridesmaid.....	3.00@ 5.00
" Meteors.....	3.00@ 5.00
" Perle, Wootton.....	2.00@ 4.00
" Testout.....	4.00@ 6.00
" Kaiserin.....	4.00@ 6.00
Carnations.....	.75@ 1.25
" fancy.....	1.50
Longiflorum.....	8.00
Auratum.....	8.00@15.00
Candidum.....	2.00@ 3.00
Valley, cold storage.....	5.00
Mignonette.....	1.00
Sweet peas.....	.25@ .40
Campanulas, per bunch.....	.25c
Coreopsis.....	.25
Gypsophila, per bunch.....	.25c
Cornflowers.....	.40
Smilax.....	15.00@18.00
Adiantum.....	1.00

ST. LOUIS, June 24.	
Roses, Beauties, long.....	12.50
" short.....	2.00@ 4.00
" select stock.....	3.00@ 4.00
" general stock.....	1.00@ 2.00
Carnations, fancy.....	1.50
" common.....	1.00
Valley.....	3.00
Cornflowers.....	.25
Daisies field.....	.15
Sweet peas.....	.25
Asters.....	1.00
Cape jasmunes.....	1.00
Smilax.....	12.00@15.00
Ferns, Adiantum.....	1.00

GEORGE A. SUTHERLAND,
 Successor to PECK & SUTHERLAND,
 Successors to WM. J. STEWART.
Cut Flowers & Florists' Supplies
WHOLESALE.
 67 Bromfield St., BOSTON, MASS.
 New England Agent for the GREAT ANTIPEST.

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 49 WEST 28th STREET,
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SPECIAL EXTRA STOCK OF
AM. BEAUTY, METEOR,
BRIDESMAID, BRIDE.
 Grown particularly for summer trade.

DISBUDED CARNATIONS.
FANCY GRADE.

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Roses shipped to all points. Price list on application.

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WHOLESALE • FLORIST.

Careful Shipping to all parts of the country.
 Price list on application.

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 501 Sixth Avenue,
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 Consignments Solicited.

The Seed Trade.

AMERICAN SEED TRADE ASSOCIATION.

T. W. WOOD, Pres.; ALEX. RODGERS and J. B. Rice, Vice-Presidents; A. L. DON, 114 Chambers Street, New York, Sec'y and Treas.

VISITED CHICAGO: Edwin M. Haven of the Haven Seed Co., South Haven, Mich.

THE contract orders, representing over \$100,000 in amount, were sold by the assignee of the Northrup, Braslan, Goodwin Co. June 20 to H. H. Harries for \$800.

THE ASSIGNEE of the Northrup, Braslan, Goodwin Co. has disposed of the equity in the claim of that corporation for damages against the Hon. J. Sterling Morton, Secretary of Agriculture. It is stated that the suit will be filed immediately in the U. S. Federal Court at Omaha, Neb., by the Hon. J. N. Baldwin, attorney, of Council Bluffs, Iowa, for Mrs. Georgiana Braslan, the purchaser.

St. Paul.

Trade is settling down to its usual summer dullness and by July 1 will be practically at a standstill. There has been a good demand this month for cut flowers for commencement exercises. Roses have been in great demand, red and white being especially scarce. The usual quota of June weddings has also caused a good demand for flowers, while the usual amount of funeral work has contributed to swell the aggregate sales.

Plant trade has been fairly active and not many first-class plants remain on hand with the growers. There has been less cutting in prices than heretofore. Retail prices have averaged as follows: 4-inch stock of geraniums \$1.25 to \$1.50 per dozen; 3-inch stock 75 cents to \$1.

A larger amount of bedding work than usual has been done in the city, while the usual number of vases and porch boxes being filled has furnished an outlet for otherwise unsalable stock. Outside flowers have been scarce. Some extra fine pæonies were brought in last week and retailed readily at \$1 per dozen. Outside roses are just coming into bloom, but do not cut any figure with the regular trade.

L. L. May & Co. are doing quite an elaborate piece of work at the capital grounds putting in a large number of G. A. R. emblem beds.

Work at the city parks is being rapidly pushed and is nearing completion. A large bed of pansies, and the clumps of pæonies on the hillside now in full bloom are very pretty.

Building operations have already commenced. Chris Hansen has completed his large rose house.

In Minneapolis, Mr. Hartman, of the Lakeside Greenhouse Co., has plans for 3 new houses—two 24x100 and one 17x100. R. Wessling of the same city is also erecting new houses.

The Oakland cemetery association of this city is the thorn in the side of many of our florist friends. Not only have they entered into competition with the florists, but by an obnoxious rule endeavor to compel lot owners to buy from their greenhouses or not at all. We have called attention to this in previous years and have been forcibly reminded of it in the past month. There appears to be no redress, and this nuisance, like the department store, will have to be endured for a time at least.

FELIX.

WE have received from Mr. Peter J. Schuur, Kalamazoo, Mich., a few samples of his celery plants, which seem of excellent quality.

PALM SEEDS

On hand in splendid condition.

	Per 100	Per 1000	Per 5000
Areca lutescens	\$1.50	\$10.00	\$47.50
Areca rubra	1.50	10.00	47.50
Geonoma gracilis	1.75	12.00	55.00
Geonoma Scholleana	1.75	12.50	60.00

Non germinating seeds will be replaced. Our Palm Growers' Guide free on application.

SCHWAKE SEED CO. (Inc.)

404 East 34th St., NEW YORK.

AZALEAS, the finest commercial varieties.

PALMS, large, healthy stock, well grown.

ARAUCAIAS, from cuttings only.

BAY TREES, perfect shape, in all sizes.

SANDER, Bruges, Belgium.

Agent: A. DIMMOCK,
106 & 108 Liberty Street, NEW YORK.
SEND FOR SPECIAL OFFER.

CHRYSANTHEMUMS.

All the choicest novelties and the cream of the standard varieties. A limited quantity of fine, healthy plants at reasonable prices. Let us know your wants.

Carnation plants all sold.

H. WEBER & SONS, Oakland, Md.

Mention American Florist.

PLANTS.

SMILAX PLANTS, 3-inch pots..... Per 100 \$2.00

MFRMET ROSES, 3-inch pots..... 4.00

SWAINSONA, 4-inch pots 4.00

JOHN LODDER & SONS,
Hamilton, O.

Mums, Roses, Violets, Smilax, Dracenas, Cut Smilax.

2½-in. Mums Merry Monarch, Marquis de Montmort, Nemesis, Philadelphia, John H. Troy Parker Jr. and Robinson, \$3.50 per 100. Marion Henderson, Eugene Balledeboze, Bonnadon, Helen Bloodgood, Yellow Queen, D. T. Murdoch, H. L. Sunderbruch, Ivory, Jerome Jones, Pres. Smith, Bergmann, \$3.00 p-r 100. La France Rose, 3-in. \$4.00 per 100. California Violets, 3-inch, \$7.00 per 100; 2½-in. \$5.00. 2½-in. Smilax, \$3.00 per 100. 1500 fine cut Smilax, \$2.00 per doz., \$18.00 per 100. Dracenas, 4-in., Australia and Indivisa, \$15 p-r 100.

POEHLMANN BROS., Morton Grove, Cook Co., Ill.

LIQUID PUTTY.

MADE JUST RIGHT.

Putty Bulbs, Clazing Points and Glass, Leaf Mould. Write for quotations.

WISCONSIN FLOWER EXCHANGE,
Box 87. MILWAUKEE, WIS.

BRILLIANT GREEN AND BRONZE

GALAX LEAVES,

For Decorating and all Florists' Designs.

CHAS. H. RICKSECKER, Linville, Mitchell Co., N. C.

Prepare Advs. Now

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NUMBER

TO BE ISSUED

AUGUST 15.

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BULBS

For Fall Delivery.

Give us your wants, and will quote you price that will give you a living profit.

WM. ELLIOTT & SONS,
NEW YORK.

Mention American Florist.

ZIRNGIEBEL'S GIANT MARKET
AND GIANT FANCY

PANSIES

are the Leading Strains up to date. Extra Large Size and Superb Colors. Liberal trade packets of either strain at ONE DOLLAR EACH. Separate colors if wanted in Blue, Black, White and Yellow.

DENYS ZIRNGIEBEL,
NEEDHAM, MASS.
Mention American Florist.

EXTRA PANSY SEED.

MAMMOTH SUNBEAM STRAIN.

A grand collection of plant flowering varieties, very large, of perfect form and choice colors; carefully selected and exceedingly fine. My customers write that this is the finest strain of pansies they can get; requires no better evidence of superiority. Every florist should sow of this improved strain. Trade pkt., 500 seeds, 25 cts.; 3 pkts. 60 cts.; 6 pkts. \$1.00. A pkt. of 500 seeds of the new giant yellow pansy will be added to every \$1.00 order.

JOHN F. RUPP, Shiremanstown, Pa.

C. H. JOOSTEN, Importer,
193 Greenwich Street, NEW YORK.
SPECIALTIES.

Bulbs, Azalea Indica, Palms, Roses,
and all kinds of Nursery and
Fruit Tree Stocks.

Catalogues on application.

SEEDS ... FOR THE ...
Garden and Farm

Vegetable and Flower Seeds. All the newest and best varieties—quality unsurpassed, Illustrated Catalogue FREE.

WEEBER & DON, Seed Merchants
and Growers,
114 Chambers St., New York City.

RAFFIA.

Direct from the packers.

AFRICAN FRENCH COLONIES.

Before buying elsewhere apply for quotations to

ANDRE L. CAUSSE,
105-107 Hudson St., NEW YORK CITY.

EREMURUS ROBUSTUS.

One of the finest of the genus with 10 ft. high flower-stalks. Fine, sound, 3 year old roots, which may be transplanted safely. Offered cheap in large or small quantities. Price on application.

For photo send 8 cents in stamps.

ZOCHER & CO., Haarlem, Holland.

The Oaks Greenhouse Co., Jackson, Mich.

	Per 100
Bezonias in variety, 2½-inch pot plants.....	\$2.50
Chrysanthemums, 2½-inch pot plants.....	2.50
R. Cuttings, standard vars.....	1.00
Marguerite Daisy, R. Cuttings.....	1.00
2½-inch plants.....	2.50
Glechoma Hederacea R. Cuttings.....	.50
Verbena, best strain.....	.75
Vinca Variegata, R. Cuttings.....	1.00
Cuphea, Phila, German Ivy, etc.....	1.00

If to be sent by mail add 10c per 100. Cash with order.
Mention American Florist.

**PRIMULA SEED.**

This Year's Crop, Now Ready.

Our superb mixture contains only the choicest fringed strains, and will give the greatest satisfaction. Trade pkt. 50c.

Cineraria Seed.

Our strains are unsurpassed for richness of color as well as for size and perfection of form. Trade pkt. 50c.

HERRMANN'S SEED STORE,

413 E. 34TH STREET,

Near Long Island Ferry, **NEW YORK.**

Agent for LYSOL, the ideal insecticide.

Mention American Florist.

**WE ARE HEADQUARTERS ON
BULBS FOR FORCING,
FLOWER SEEDS FOR FLORISTS
ENGLISH MUSHROOM SPAWN.**

Special prices on application.

JOHN GARDINER & CO., Seedsmen,
631 Market St., Philadelphia, Pa.

LILIUM HARRISII

NOW READY.

5-7 inch circum., per 100 \$2.00; per 1000 \$17.50

7-9 inch circum., per 100 \$4.00; per 1000 \$38.00

Best stock grown in Bermuda.

Prices on all other Bulbs on application.

HULSEBOSCH BROS., Englewood, N. J.

Mention American Florist.

VAN ZANTEN BROTHERS, Hillegom, Holland.

Extra quality of **HIGH GRADE FORCING BULBS AT LOW PRICES.** We now book orders for **Azalea Indica, Palms, etc.** The largest collection of sundry bulbs and plants.

APPLY FOR WHOLESALE CATALOGUE.

PRIMULA SINENSIS

My own saving, in the following varieties:

**DOUBLE WHITE, SINGLE PINK,
DOUBLE RED, FERN LEAF, Pink,
SINGLE WHITE, FERN LEAF, White
SINGLE RED, Extra, ALBA MAGNIFICA
STRIPED, White and Pink.**

THESE have been carefully fertilized, and there is no better strain in the country.

ALL VARIETIES MIXED, per pkt., about
200 Seeds, 50c.; 500 Seeds, \$1.00.

WILLIAM SCOTT,
Main & Balcom Sts., **BUFFALO, N. Y.**

SHEEP MANURE.

PER 100 POUNDS \$2.50.

Closest prices on 500 or 1000 lb. lots.

VAUGHAN'S SEED STORE,
NEW YORK AND CHICAGO.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns

NO BLUFF!

Romans and other French Bu'bs very short crop. Don't delay booking your order for these and other forcing stock Send to-day for my price list.

G. C. WATSON,
SEEDSMAN AND BULB SPECIALIST,
43 North 10th St., **PHILADELPHIA.**

Pansy Seed.

The Cunningham strain of finest mixed, equal to any strain in America.

¼ oz. \$2.00; 1 oz. \$4.00; 3 ozs. \$11.00.

CASH WITH ORDER.

JOS. H. CUNNINGHAM, Delaware, O.
Mention American Florist.

**PREPARE ADVS. NOW
FOR OUR**

Convention Number

To be issued AUGUST 15.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Cincinnati.

Our storemen and wholesale houses complain of dull times the past week. Commencement of our schools had little effect on flowers. Spring trade has been very satisfactory to the florists here; the sale of bedding plants has surpassed any previous year.

Mr. Fred Walz of Cumminsville is very enthusiastic over his collection of seedling cannas, and he has cause to be proud. There are surely some varieties among them that excel any up to date. One grand flower is a cross of Queen Charlotte and Mme. Crozy, color a dark but bright red, with a broad yellow border, flowers very large and with more substance than Crozy. This variety he has named Cincinnati. There are many others equally as good, and at least ten that will surpass any of the standard varieties—these will be heard of later.

Mr. Wm. Mann, bookkeeper for H. L. Sunderbruch, has returned from his two weeks' vacation south, visiting Memphis, Nashville and Louisville. He is at his desk again with his usual smile.

Visiting town: Mr. Kroger, representing Siebrecht & Wadley, New York.

H. SCHWARZ.

Norristown, Pa.

In 1897, Mr. Joseph N. King intends celebrating the 50th anniversary of the establishment of the greenhouses in Norristown. The history of this establishment, though brief, is both interesting and suggestive.

Henry King, Sr., was the pioneer florist in Norristown, Montgomery Co., Pa., removing thence in 1845 from Philadelphia, where he had been employed during the previous seven years, from 1838 to 1845, by Landreth Bros. as foreman in their seed business. Two years later, in 1847, he bought a piece of ground upon which he erected the first greenhouse. This ground has since increased considerably in value, while the improvements made about the place from time to time have fully kept pace with the general progress achieved in all industrial branches during the past half century.

Mr. Joseph N. King still runs and conducts the place started by his father and is naturally very proud of the long and honorable business record maintained by both father and son.

The midsummer dull spell is somewhat ahead of its time this season. Things took a sudden drop and business is almost at a standstill.

HOMO.

Butte, Mont.

Trade still remains good, but florists are expecting a drop any time. The high school commencement took place on the 10th, and as usual everything that was salable was easily disposed of, notwithstanding florists had placed large orders for the occasion. Prices remain about the same, Beauties \$3, common \$1.50, carnations 60 cents; very little demand for garden flowers.

Mrs. D. J. Knox leaves this week on a trip east. The weather thus far this month has been fine, very little snow and rain, quite unusual for this part of the state.

J. H. M.

CINERARIA SEED.
GRANDIFLORA NANA.

This grand strain of Giant-flowering and compact growing Cinerarias is unequalled for size of bloom, richness of colors and symmetry of growth. Extra fine. Trade pkt. 25 cts.; 5 pkts. 10 cts.; 10 pkts. \$1.00.

JOHN F. RUPP, Shiremanstown, Pa.

ROSES FOR WINTER FORCING

ALL FIRST-CLASS, WELL GROWN STOCK.

2½-in. pots per 100.

\$4.00

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6.00

6.00

8.00

8.00

8.00

4.00

PERLE

BRIDE

BRIDESMAID

METEOR

LA FRANCE

GONTIER

DUCHESS OF ALBANY

SUNSET

KAISERIN

TESTOUT

SOUV. DE WOOTTON

AMERICAN BEAUTY

BELLE SIEBRECHT

MRS. PIERPONT MORGAN

CLOTHILDE & PINK SOUPERT

3½-in. pots, per 100.

\$10.00

10.00

10.00

10.00

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12.00

12.00

12.00

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14.00

14.00

8.00

GREENHOUSES, VAUGHAN'S SEED STORE, 84 & 86 RANDOLPH STREET, WESTERN SPRINGS, ILL. CHICAGO.

HERR'S CARNATIONS.

WM. SCOTT.....\$1.25 per 100; \$10.00 per 1000

CUT CARNATIONS.

Orders for cut carnations filled at \$1.00 per 100. None west of Pittsburg.

CASH WITH ORDER OR C. O. D.

L. B. 496.

ALBERT M. HERR, LANCASTER, PA.

Mention American Florist.

Planting Stock

ROSES,
FERNs,
SMILAX.

German Pansy Seed.

PRICE LIST ON APPLICATION.

DAN'L B. LONG, Jobbing
Florist,

BUFFALO, N. Y.

CARNATIONS

Orders solicited for ROOTED CUTTINGS.

KOHINOOR takes the lead.

Other Novelties of the Standard sorts at standard prices. All healthy and strong.

C. J. PENNOCK,

The Pines. KENNETT SQUARE, Chester Co., PA.

Mention American Florist

THE COTTAGE GARDENS,

C. W. WARD, Mgr.

QUEENS, L. I., N. Y.

WHOLESALE SPECIALTIES:

Carnations, Chrysanthemums,
Cannas, Geraniums.

DO YOU WANT CARNATIONS?

If so, why not GROW the BEST?

50,000 ROOTED CUTTINGS, including Daybreak, Wm. Scott, Goldfinch, Lizzie Gilbert, Emily Pierson, Lizzie McGowan, Tidal Wave, S. Spray, Hinze's White, &c. Can do you justice in quality and prices. Write me before you buy. Address CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

CARNATIONS A SPECIALTY.

Rooted Cuttings. Young Plants. Field Grown Plants in season. Write for prices.

GEO. HANCOCK & SON, Grand Haven, Mich.

CARNATIONS.

F. DORNER & SONS CO.,

LA FAYETTE, IND.

Rose Stock Building Material

Belle Siebrecht.....2½-inch, \$4.00 per 100
Perles.....3½-inch, 8.00 per 100
La France.....2½-inch, 4.00 per 100
Mermets.....2½-inch, 4.00 per 100
Wootton.....2½-inch, 4.00 per 100
Kaiserin.....2½-inch, 8.00 per 100
Kaiserin.....2½-inch, 4.00 per 100
Brides.....3½-inch, 8.00 per 100
Bridesmaids.....3½-inch, 8.00 per 100
Van Reyper Perfect Glazing Points, 60 cts per 1000.
Liquid Putty, made especially for greenhouse work,
In 25 lb cans, at 5 cts. per lb.
Scollay's Putty Distributor, 75 cts. each.

ELLIS & POLLWORTH, Milwaukee, Wis.

ROSES. NOW READY.

First-Class Stock, 2½-inch pots.

Per 100 1'er 1000

METEORS.....\$2.50 \$20.00

BRIDES.....2.50 20.00

BRIDESMAIDS.....2.50 20.00

500 fine WOOTTONS, 3½ in. 4.50

A. G. PRINCE & CO.,

88 Wabash Ave., CHICAGO.

ROSES.

BRIDES, BRIDESMAIDS, MERMETS, KAISERIN and TESTOUT, \$3.00 per 100; \$25.00 per 1000.

PERLES, \$3.50 per 100; \$30.00 per 1000.
LA FRANCE and BRIDES, 3-in. \$5 per 100; \$45 per 1000. 25 at 100, and 250 at 1000 rates.

R. F. TESSON,

West Forest Park, ST. LOUIS, MO.

ROSES.

Good, strong 2½-inch stock. Per 100
MARY WASHINGTON.....\$2.00
MRS. DEGRAW.....2.00
GOLDEN GATE.....2.50
MME. C. TESTOUT.....3.00

CASH WITH ORDER.

NATIONAL PLANT CO., Dayton, O.

PREPARE ADVS. NOW

FOR OUR

CONVENTION NUMBER,

TO BE ISSUED

AUGUST 15.

NEW ROSE

"Mrs. PIERPONT MORGAN"

Listen for a moment to what a voice from far off Springfield, Illinois, has to say about our young stock of this rose:

May 1, 1896.

"EDWIN LONSDALE, Chestnut Hill, (Station 11), Philadelphia, Pa.

"DEAR SIR: Box of 'Morgan' rose plants arrived Saturday in good shape. Fine Plants. I would like to know how you produce plants of such size in a two (2) inch pot?"

All I can say is that it is all owing to the natural vigor of the variety, and perhaps to some extent to the natural rose growing qualities of our soil.

We have a few more left of the same size. Order early or you may get left, for I do not know of a more profitable variety to grow for cut flowers than MRS. PIERPONT MORGAN.

Don't forget our address:

EDWIN LONSDALE, Station H,
Chestnut Hill, PHILADELPHIA, PA.

Last Offer of
SURPLUS STOCK

ROSES. TEAS. ROSES.

Papa Gontler, Marie Van Houtte, Fortune's Yellow,
Mme. Hoste, Cath. Mermet, Gloire de Dijon,
Rainbow, Ernest Metz, Luciole,
W. Bon Silene, Siffrano, Dr. Grail,
Golden Gate, Mrs. Bosanquet, Louis Richard,
De Watteville, Empress Eugenie, Wichuriana,
Caroline Kuster, Appoline, Macrophylla,
Eliza Fugler, James Sprunt, Mrs. Degraw,
Martha du Berg, Queen's Scarlet, La Nelze,
Eliza Heyman, Arch Duke Charles, Leo XIII,
Caroline Cook, Cherokee, Furatin Bismarck

\$2.50 per 100; \$22.00 per 1000.

HYBRID PERPETUALS.

Mme. Plantier, Gen'l Jacquemont,
Chas. Lefebvre, Dr. Hogg,
Anton Mouton, Prince Camille,
Pierre Notting, Eliza Boelle,
La Rosiere, Pride of Waltham,
Marie Baumann, Gloire de Margottin,
Cardinal Patrizzi, Baron de Bonstetten,
Vick's Caprice, Dr. Andry.

\$4.00 per 100; \$35.00 per 1000.

MOSS ROSES.

James Veltch, Mouseline,
Capt. Basroger, Glory of Mosses,
Alice Leroy, Prolific (or) Gracilis,
Henri Martin, \$4.00 per 100; \$35.00 per 1000.

Also a fine stock of YOUNG CARNATIONS, 2½-in. pots, at \$2.50 per 100.

Address **NANZ & NEUNER,**
582 Fourth Ave., LOUISVILLE, KY.

Mention American Florist

Do You Need Roses?

I have 25,000 good ones out of 2½-inch pots, and can give you prices that will open your eyes.

BRIDES. 2½ cts.
BRIDESMAIDS. 2½ cts.
MERMETS. 2½ cts.
PERLES. 4 cts.
METEORS. 4 cts.

This stock is in good shape. Cash with order.

CHAS. KOEPPEN, SEDALIA, MO.

Mention American Florist.

100,000 Strong Field-Grown ROSES

(Budded and own roots) for Fall delivery.

Try our new BIOTA AUREA NANA.

Thousands of Olea Frangrans, Azaleas, Camellias and Magnolia Fuscata.

Prices on application.

P. J. BERCKMANS, Augusta, Ga.

ROSES.

FRANK L. MOORE,

CHATHAM, NEW JERSEY.

THE DIRECTORY

For 1896.

IS NOW READY.

Price \$2.00.

AMERICAN FLORIST CO.

FORCING ROSES. EXTRA FINE STOCK

FOR IMMEDIATE PLANTING.

This is not surplus stock. It has been especially prepared for June and July planting and will give satisfaction to the most critical buyer.

	2½-inch	3-inch	Per 100
PERLE DES JARDINS, extra fine	\$4.00	\$6.00	"
SUNSET	4.00	6.00	"
WOOTTON	4.00	6.00	"
BRIDE	3.00	5.00	"
BRIDESMAID	3.50	5.00	"
NIPHETOS	3.00	5.00	"
KAISERIN AUGUSTA VICTORIA	4.00	6.00	"
CATHERINE MERMET	3.00	5.00	"
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SMILAX, fine 2½-inch stock \$3.00 per 100

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Roses, Roses & Roses.

All the best NEW and STANDARD varieties for winter forcing now ready in A1 stock, and of

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the most profitable known variety for forcing, and of the easiest possible culture I have a grand lot now ready. Write for special prices on this variety for large lots to

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KAISERIN, 4-inch pots, - - - \$5.00 per 100.

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Send orders to **51 Wabash Ave., CHICAGO, ILL.**

30,000 FIRST QUALITY FORCING ROSES.

READY FOR IMMEDIATE PLANTING.

Fully equal to those sent the last four years, first-class and perfectly healthy in every respect. Only selected growth from flowering shoots used in propagating.

WOOTTON,	LA FRANCE,	AMERICAN BEAUTY,	BELLE SIEBRECHT,
3-inch pots, \$8.00 per 100.	3-inch pots, \$12.00 per 100.	4-inch pots, \$12.00 per 100.	
METEOR,	KAISERIN A. V.,	SUNSET,	BON SILENE,
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BRIDESMAID,	3-inch pots, \$7.00 per 100.	4-inch pots, \$10.00 per 100.	BRIDE.

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BEAUTIES, MERMETS, CUSINS, TESTOUTS, NIPHETOS, PERLES, BRIDES, BRIDESMAIDS, METEOR, HOSTE, LA FRANCE, WOOTTON, WATTEVILLE, AUG. VICTORIA, 2 and 3 inch pot plants. Cash with order. Owing to number booked, they will be executed in rotation to assure prompt delivery. Order early.

Address for quotations, **VILLA LORRAINE ROSERIES, MADISON, NEW JERSEY.**

CHOICE ROSE PLANTS,

In 3 and 3½-inch pots. Per 1000

METEOR, PERLE, BRIDE and BRIDESMAID. \$40.00

AMERICAN BEAUTY, 3½-inch pots. 50 00

BELLE SIEBRECHT, 3 inch pots, \$6.00 per 100.

MONEY WITH ORDER.

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BURLINGAME, CAL., May 30, '96

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Yours respectfully,

E. W. McCLELLAN.

Send orders to

BRANT & NOE, Forest Glen, Ill.

A FINE LOT OF

Meteors,

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Now ready, out of 3 or 4-inch pots. Write for sample and prices to

GEO. A. KUHLE, Pekin, Ill.

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CLEMATIS, RHODODENDRONS, AZALEAS, MAGNOLIAS, BULBS, Etc., Etc.

Ask for prices.

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In 2½-inch pots per 100 per 1000

Am. Beauties. 5 00 \$40 00

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ROSES. FIRST-CLASS STOCK.

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100 Smilax, 2½-in., bushy, fine, \$2.00.

CRABB & HUNTER, Grand Rapids, Mich.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

Utica, N. Y.

The spring plant trade is about over and gone for this year. The volume of business compared very favorably with other years. Geraniums were in short supply and more good plants could have been used. What with school commencements and June weddings the demand for cut flowers is very brisk; in fact too much so for the supply. Roses are scarce and not of the best when they are to be had. Carnations still hold their own and are the best flowers to be had in this market. Specimen plants of hydrangeas are in good demand. What people seem to be looking for is large shapely plants in about 7 or 8-inch pots; for such a good price is obtained.

This city came very near joining the list of those in the hail belt on last Wednesday. Within two miles of the city line hail fell in astounding quantity and of large size. In some places not a single light of glass remains in the south and west sides of the residences. At Ilion, N. Y., the same storm struck the greenhouses of Mrs. Holder, totally demolishing the same. Hakes & Son were also in the path of the storm, but did not suffer so badly. Although no one here lost any glass, it set some of the craft thinking about insurance.

Geo. Boyce, who has the contract for planting the city parks, is busily finishing up the last of the beds.

John Hughes, who has had charge of the Overlook Greenhouses at Little Falls, N. Y., has resigned.

Wm. Mathews the orchid specialist, is rebuilding part of his establishment. He has a magnificent house of cattleyas; thinks they are doing better than ever. A big batch of *Cypripedium Lawrenceanum* lately received are starting to make themselves in good shape. Reports an ever increasing demand for orchid bloom of all descriptions.

F. J. B.

Greenhouse Building.

Merion, Pa., Chas. Hires; one conservatory 20x100 and boiler house.

Gildersleeve, Conn., Dr. Sellow of New York; range of six houses.

East Haven, Conn., N. W. Kendall; one palm house and two greenhouses, each 100 ft. in length.

Portsmouth, N. H., Hon. Frank Jones; one palm house 25x80; Hotel Wentworth; one conservatory 10x130.

South Framingham, Mass., C. J. Power; one commercial house.

Philadelphia, Pa., Jas. Moorehead, range of commercial houses.

Waterville, N. Y., Geo. Marshall; one commercial house, 20x32.



STRAWBERRY-RASPBERRY, LOGAN BERRY (Raspberry-Blackberry)

We are headquarters for them. Also Golden Mayberry and Sacaline, home-grown plants. Bottom prices for gilt edge stock.

THE LOVETT CO., Little Silver, N. J.

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Our letter is handled by all the wholesalers in Boston.
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Strong 2½-inch, 6 for \$1.00.

The best Daisy for cut flowers. A pleasing shade of yellow; long stems; blooms the year around. Sample blooms mailed on receipt of 10 cts

3-inch BRIDES, BRIDESMAIDS, METEORS, 6 cts. Nice, clean stock.

Also small 'MUM plants.

ASPARAGUS PLUMOSUS, strings 8 to 12 feet long, 75 cts. per string.

CASH WITH ORDER.

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Mention this paper.

Our 1895 PALM COLLECTIONS are better than ever, and consist of 17 3 to 4-inch for \$3, or 34 for \$5; 10 4 and 5-inch Palms for \$3.50, or 20 for \$6.00; 6 6-inch Palms for \$5.00, all the best varieties.

ROSES—	Per 100
Monthly and Tea, best kinds, 2-inch	\$ 2 50
" " " " 3-inch	5 00
" " " " our selection	4 50
Hybrid Perpetual, assorted kinds, 2-in	2 40
Crimson Rambler	10 00

FERNS—	
Adiantum Cuneatum, 3 and 4-inch, 36 & 10 00	
" Farleyense, 3-inch	25 00
" " 4-inch	50 00
" Capillus Veneris, 3-inch	5 00
Sword, 3-inch	5 00

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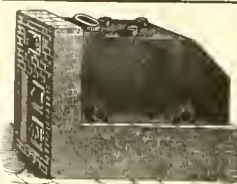
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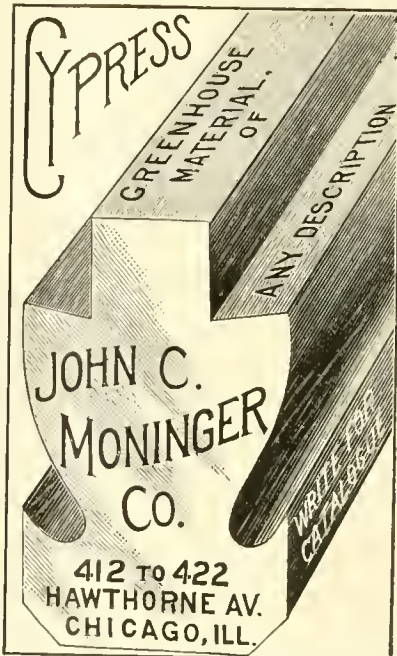


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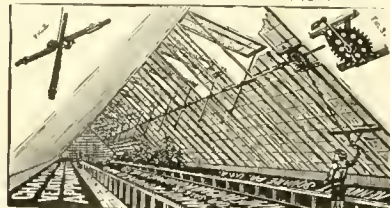
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New Asparagus Sprengeri 30c. New Spiraea Anthony Waterer 25c. New Climbing Meteor Rose 30c. New Golden Rambler, Yellow Souper, New Crimson Rambler \$5 per 100. New Justicia, New Double Rudbeckia, New Cannas, Carex Japonica, Bougainvillea, Gladioli, Dbl. New Life Geranium, Geranium Agnes Kelway, best pink. Send for Catalogue of Novelties and Trade Bulbs at low prices. A. BLANC & CO., Philadelphia, Pa. Japanese Gardinieres at very low prices. List free.

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IN BEST VARIETIES.

ROSES, from 3-inch pots.
CARNATIONS, for fall delivery.
CHRYSANTHEMUMS.
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VIOLETS.
Prices low. Send for list.

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and not only have the LARGEST and BEST collection in America, but guarantee our stock true to name. We are now filling orders for trial grounds. Every SEEDSMAN and FLORIST interested in DAHLIAS should send for our new descriptive Trade List.

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Price to the Trade, \$17.50 per 100;
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That the price of PALMS, both in Europe and in this country, has advanced from 25 to 33 per cent. We have not advanced on our large decorative sizes as yet, so get your order in quick.

LATANIA BORBONICA, 5 to 6 feet, 6 to 8 leaves, \$3 50, \$4 and \$5 each.
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SABAL GLAUCESCENS, very hardy vase plants, 2½ to 3 feet, \$1.50 each.
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We have some excellent tubers of Nelumbium Speciosum and Nelumbium Luteum, which we offer in small or large quantities at lowest prices. Also several of the newer choice and scarce kinds. Now is the most favorable time to plant.

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Our stock of this regal aquatic is unusually fine and can be recommended as the best for all purposes and localities, with or without artificial heat. We offer strong plants from \$5.00 each upward. Place orders now for immediate or future delivery.

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Two years, all large flowering, choice
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Strong, heavy plants 35c each, 4.00 30 00
H. P. Roses, 2 years, 4-inch pots . . 1.50 10.00
Clematis Jackmanni, nice young plants
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VINCA MAJOR VARIEGATA,

in 4 and 4½-inch pots.

FIRST SIZE. \$10.00 per 100
SECOND SIZE. 8.00 per 100
In 2-inch pots 2.00 per 100

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FRESH
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Areca rubra.....	\$1.25	\$10.00
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All Chamierops, Phenix and many others now in stock. A full list on application.

FOR AUGUST DELIVERY.

Kentia Belmoreana.....\$1.25 \$10.00
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The Jennings strain of finest American grown Pansy Seed. New crop ready June 15th. The grandest combination of colors ever sent out.

The largest flowering.
The strongest growing,
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Very finest mixed:
Pkt. of 2500 seeds, \$1.00; ½ oz. \$3.00; 1 oz. \$6.00;
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PLANTS. Strong and stocky, \$1.00 per 1000;
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Safe arrival guaranteed.
Special low express rates.
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Post free. Send for it.

PETER J. SCHUUR, Kalamazoo, Mich

News Notes.

CHATTANOOGA, TENN.—Chas. H. Dyer has entered the business here with about 2500 feet of glass, intending to do a general retail business.

PITTSFIELD, MASS.—At the meeting of the Gardeners' and Florists' Club on the evening of June 13 it was voted to hold the annual exhibition three days in the early part of November at Central Hall.

YORK, Pa.—The greenhouses of C. E. Smith, at the corner of Jefferson St. and Jackson Ave. are to be moved to the corner of Juniper St., where they will be attached to those already standing at that point.

NEW KENSINGTON, PA.—Mrs. E. M. Turner & Co. is the style of a new firm here. They have built one house for bedding plants, and expect shortly to begin the erection of two 60 ft. houses for cut flowers.

HOLYOKE, MASS.—The annual flower show of the Holyoke Horticultural Society was held on June 11 and 12. It was a very meritorious exhibition, and the attendance was greater than on any former occasion.

PROVIDENCE, R. I.—The annual June exhibition of the Rhode Island Horticultural Society took place on June 17 and 18 at Tillinghast's Parlors; roses and strawberries were the most important features. The displays were well arranged and of unusual excellence, but were smaller in number than usual.

DOVER, N. H.—Henry Johnson, a highly respected citizen of Dover, who built and conducted the rose houses on Garrison Hill for six years, died on Sunday morning, June 14, after an illness extending over two years, aged 68 years. Two years ago on account of failing health he sold out his business to C. L. Howe, the present proprietor. His wife and one daughter survive him.

OWOSSO, MICH.—J. S. Schleider has just finished two houses, each 22x100 feet, with shed 46x16. He has added a tank for water, which is filled from a well 150 feet deep by windmill. The addition is a little distance from old place, both places being run at present, but the intention is to move entirely to new place in time. Business has been exceptionally good, necessitating the increased space.

Jones, McDuffee & Stratton, Plant Pots and Pedestals

of all grades, sizes and values, direct from the best Potteries of England, France, Germany, China Japan and the U. S.

WHOLESALE AND RETAIL.

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FLOWER POTS.

We Manufacture all kinds of Flower Pots, etc.
Making a Specialty of

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Send for price list and samples (which will be sent free), and we know you will give us your order.

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NATURAL GAS MADE GLASS.

FOR GREENHOUSES.

Write for latest prices.

STANDARD FLOWER POTS.

Send for our new price list, with extra discounts. All of our Pots from 7-inch and upwards have our Patent Excelsior Bottom, which is a great advantage as it insures perfect drainage.

A FULL LINE OF BULB PANS.

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BRANCH WAREHOUSES: { Kearney and Westside Aves., Jersey City, N. J.
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STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere. Our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Doppfel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Doppfel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

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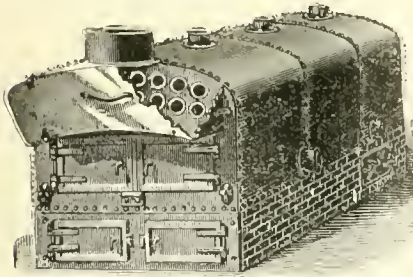
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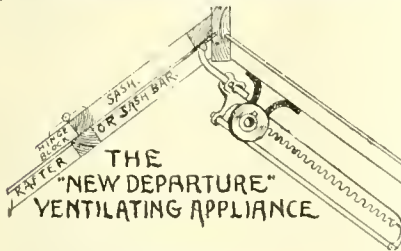
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AND OTHER BUILDING MATERIAL.

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VENTILATING APPLIANCE**

D. CARMODY, Evansville, Ind.

Dear Sir:—Enclosed find remittance for ventilating appliance. I find it the best, cheapest and easiest to work I ever handled—no exceptions whatever.

Yours truly,
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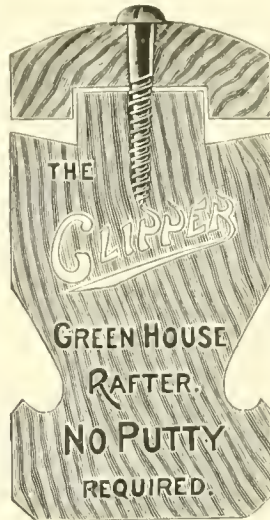
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GASSER'S ZINC JOINTS**

Makes a roof Air and Water Tight. No lapping. No breakage from frost or medium sized hail. Saves fuel.
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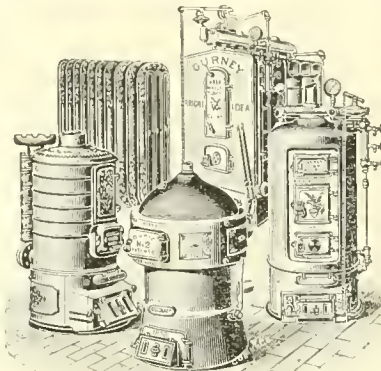


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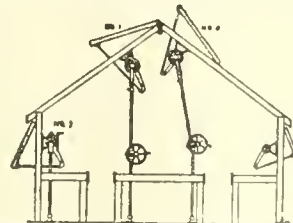
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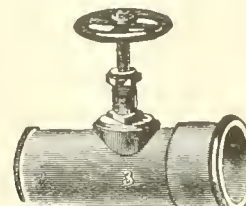
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The sweet pea exhibition of the Hampden County Horticultural Society will be held July 28 and 29. Prizes are offered for sweet peas in twenty-one classes. Prizes for other flowers are offered in thirty-one classes.

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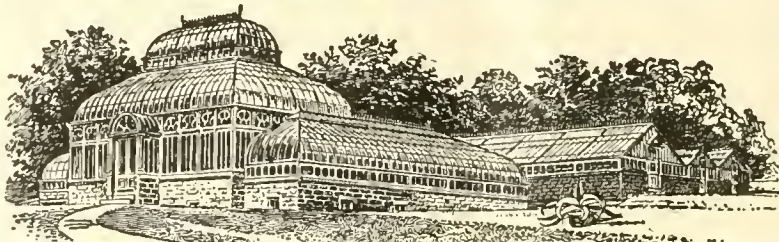
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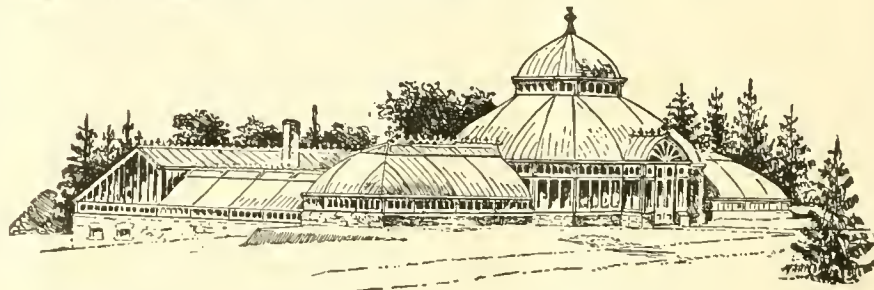
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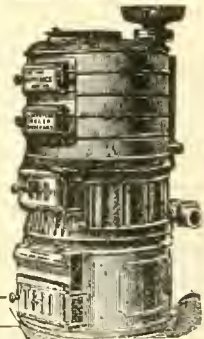
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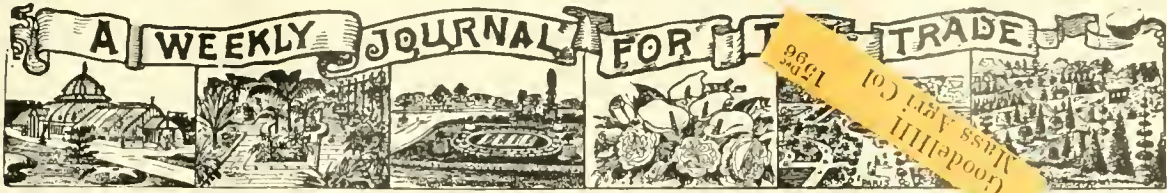
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Vol. XI

CHICAGO AND NEW YORK, JULY 4, 1896.

No. 422

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WM. SCOTT, Buffalo, president; ADAM GRAHAM
Cleveland, O., vice-president; W. J. STEWART, Boston,
secretary; H. B. BEATTY, Oil City, Pa., treasurer.
The twelfth annual meeting will be held at Cleve-
land, O., August, 1896.

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THE 20th annual session of the Georgia
State Horticultural Society will be held
at Wiffin, Ga., August 5, 6 and 7. P. J.
Berckmans, Augusta, is president, and G.
H. Miller, Rome, is secretary.

A SECOND SUPPLEMENT to the "Liste
descriptives des chrysanthemes d'hiver,"
by O. de Meulenaere, has just been pub-
lished; it includes the varieties sent out
from 1894 to 1896, in number 1029. M.
de Meulenaere's lists are of special value
because they include so many foreign va-
rieties, of which we hear little in this
country. The list and supplements may
be obtained from the publisher, Ad.
Hoste, Ghent, Belgium.

Herbaceous Plant Notes.

Iris *Kämpferi* or *lavigata* is certainly
one of the most remarkable and showy
species, and blooming at a time when
nearly all others are past, should be em-
ployed largely everywhere. The flowers
of the better varieties are very large,
measuring from 7 to 10 inches across;
their colors are very rich and velvety in
the darker varieties, while the pure white
striped or veined flowers in various shades
of purple, blue or rose are exceedingly
handsome. Unlike the German iris, they
do not perfect the best flowers on very
dry ground, but prefer low or moist
situations, though very good blooms are
produced sometimes in an ordinary good
flower border when fully exposed to the
sun. If massed together in large bold
groups along the edge of a pond, lake or
stream of water, their beautiful flowers
develop to perfection, and when seen from
surrounding elevated ground are simply
gorgeous to look at. At the Riverside
Cemetery in this city may be seen a large
mass of this magnificent iris planted along
the edge of a miniature lake, the elegant
and vivid colors show surprising varia-
tions from a distance. Especially is this
true in the afternoon, when the sun strikes
the bed at an angle, and I have rarely
seen a more cheerful effect created with
such simple materials. Mr. Shepard,
formerly of Chicago, who has been the
superintendent of this establishment for
the last three years, is an able and
thorough horticulturist who evidently
knows where to place a plant so as to
exhibit its beauties to full advantage, and
under his management we may confi-
dently look for the successful development
of the natural beauties in the large tract
of land placed under his care. He is a
firm believer in hardy plants and proposes
to largely introduce them in many of his
shrubberies, and also in beds and borders,
but whatever and wherever he does plant
large masses will be the prevailing feature
of the grounds. After roaming around in
different parts of the as yet unfinished
and partly wild grounds, I had to return
to the colony of iris, viewing it from all
sides, and going up close to it we mea-
sured some of the individual flowers, some
of them were 9 inches across, which is a
remarkable showing, for the plants were
densely crowded and received no extra
care whatever. The six petaled sorts are
preferred by Mr. Shepard, although some
of the three petaled varieties are in my
opinion quite equal to them as long as the
petals are broad and round enough to
leave no spaces in between.

Another of Mr. Shepard's favorites is
the bright flowered *Monarda didyma*,
which continues to flower in such pro-
fusion throughout our hottest months,
and not only effectually covers the lower
edges of shrubberies, but delightfully
enlivens the sombre green with its cheer-
ful and gay flowers. Large masses of

golden rod mixed with tall asters and
Boltonia latissquamæ and *B. asteroides*
are not in bloom yet, but surely will form
one of the greatest attractions when their
time comes, as they are planted in a very
prominent place. This is another instance
of producing a grand effect with few and
common materials, in which art Mr.
Shepard is master.

Among the rarer plants that are in
flower now on our own grounds or have
been in bloom for some week past, may
be mentioned the beautiful and free flow-
ering *Epilobium rosmarinifolium*; the
flowers are produced on long, branchy,
terminal spikes and are a pleasing shade
of reddish pink, of good size, 1½ to 2
inches across, the stamens are of the same
color as the flower. It is a most useful
plant in the herbaceous garden as we
have but few plants of that color in
bloom now, and doing well in most any
situation, though naturally preferring
the low and moist places where the
individual flowers and the spikes attain
very large size, and the growth will be
stronger and taller; it forms a neat com-
pact bush 1½ to 2 feet high when planted
alone, but should be planted in masses or
along the edges of shrubbery. It has been
said that this plant is not very hardy, but
I can say from experience that it is just as
tough as an oak tree with us, planted on
a knoll where no snow covered it in win-
ter and exposed to sun and wind, the plant
did not suffer in the least, and in my
younger days I have grown it on Long
Island also without protection, never
losing a single plant.

Cephalaria tartarica with its large
globose, scabiosa-like flower heads, 2 to 3
inches across is rarely seen here, and I do
not know why this beautiful thing should
be so neglected; in a narrow small border
it may not be in place, for it grows from
4 to 6 feet high and spreads out in pro-
portion, but in a shrubbery or in a large
sized wide border, the elegant primrose
yellow flowers on their long stems show
up to advantage. They continue to send
out these flowers for 2 months or more
and are also most useful and lasting
after being cut, so I do not see why the
plant should be neglected, especially as it
is a most vigorous grower and very
hardy.

Astilbe Thunbergi (not *Spiraea Thun-
bergi*) is now at its best and a most
beautiful object in the border, the growth
and habit I like far better than the old
and well known *A. japonica*, it grows a
little taller and its foliage is somewhat
broader and on longer petioles. The
flowers are disposed on similar stems in
the same way as in that variety, but the
branchlets in the panicles are set farther
apart and are curving and bending over,
giving the spike a looser and more grace-
ful appearance; moreover the upper part
of the stems have a rich reddish color,
which shows to perfection among the

pure white flowers. When massed together, no other astilbe looks so pretty and charming and if we plant a few clumps of the light blue wahlenbergia among them, the patch will not be destitute of flowers for the remainder of the season.

Campanula Van Houttei has been in excellent shape for four weeks now and promises to continue for a long while to come; it is one of the large flowered varieties. The bells are pendulous, dark blue in color and of good substance, wind and sun do not affect them, and I call it a decidedly good form; $1\frac{1}{2}$ to 2 feet is as high as the plant will grow.

Michauxia campanuloides is not a true perennial, but usually will flower for several seasons in succession. As seeds are produced very freely, it is not difficult to keep a stock of it coming on and replace old decaying plants, the same as we do with hollyhocks, digitalis, etc. The flowers are very large, white tinged with blue on the outside, the corolla is divided into eight petal-like segments, which are reflexed like the petals of Lilium speciosum. The flower stem is much branched and very tall, from 3 to 6 feet high, requiring support if planted in exposed positions, nevertheless the plant is very desirable, as the showy flowers are produced for several months in succession and are decidedly ornamental and lasting. The unique shape of them alone should induce us to grow a few of these plants at least, planted among campanula, tall asters, eryngiums, heliopsis or other things, where the under growth will serve as an effective support to the tall flower stems of the michauxia. They are very effective and show their curious flowers to advantage. J. B. KELLER.

Rochester, N. Y.



Carnation Notes.

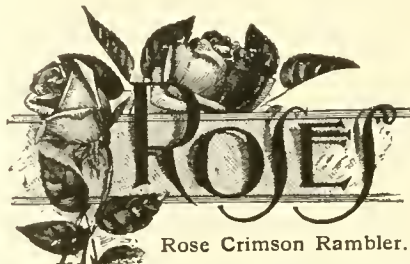
The question "What are the best measures to prevent an overstock or glut in the market" when drawn from the question box at the New York convention created merriment; and the first answer "Kill off half the growers" elicited still more laughter. Quite a radical way to solve this question. Perhaps the remaining half would be hanged for killing the others, and leave the whole field to whom?

There is another side to this answer that is not quite so laughable, one we meet in our business life, and it will not create any merriment either, rather chagrin. This is the practice of one trying to kill the other by underselling. It generally ends by killing both; one from the blow received, and the other from exhausting himself in dealing out the blows.

This question is like the answer as narrated in one sense ridiculous, and in another a very serious one. In the course of the discussion following, answers were given in a sincere spirit as the question was undoubtedly proposed. The one most taking is to grow more good flowers, and place the rubbish on the manure heap. If every grower would comprehend this better, much could be accomplished in the way of ready sale and better prices. Flowers are considered too

much of a luxury yet, and it is impossible to regulate the demands; producers and consumers alike now prevent an overstock and the fluctuations in prices. We can depend only on the tempting character of our product, the best we can produce, and the influence we can exercise in cultivating the taste of the people. Now undoubtedly a dozen of well grown flowers will have a better influence in cultivating the taste of others than two or three dozen of rubbish. Is not the advice to place the rubbish on the manure heap justified? Better quality, less quantity should be our motto, and we can do much in preventing an overstock. Luxuries have in the course of time, through habit and the influence of civilization, become a necessity. What is in the way of our flowers becoming a necessity?

FRED DORNER.



Rose Crimson Rambler.

It appears at this writing as though the variety of rose heading this item should eventually find a place—and that very soon—in every garden wherever plants are grown in this country. There may be, of course, localities where it may not thrive as well as others, but hereabouts it is a great and a grand success. An enthusiastic writer in a local newspaper stated a short time ago that it was one of the greatest acquisitions to our gardens in modern times; and so far as I have been able to observe, I can endorse every word that was said in its favor. Every strong plant put out this and last spring will be a standing advertisement, setting forth its great merits, for every live florist to take advantage of; so that it will be wise for most florists engaged in doing more or less of a local trade to make preparations for the demand which is sure to come, to lay in a large stock as early as possible, especially in localities where it behaves as it has done hereabouts during last winter and this spring, as it is hardy, healthy, free-flowering and withal the most distinct and useful hardy new plant we have been called upon to admire for the past thirty years or more.

E. L.

Scale on Palms.

I do not find the preparation of cyanide of potassium and sulphuric acid altogether a success as a cure for scale, etc.

Having a number of palms, etc., infested with scale, I thought I would give the remedy a trial. I used a frame 12x6, and having filled this with the plants to be fumigated, a tarpaulin was placed over them, and then the sash to make it perfectly tight. The dose given was two ounces cyanide of potassium, two ounces sulphuric acid and four ounces water. The plants were left in 40 minutes, and then tarpaulin was removed. Everything was apparently all right, but on examining the plants a week later I find quite a number of the kentias, arecas and dracaenas badly damaged, though the majority of the plants came through in good condition. The scale is pretty well destroyed.

I would advise the readers of the FLO-
RIST to exercise care in this matter and try but a few palms at first. E. W. P.

Not having tested the fumes of cyanide of potassium and sulphuric acid combined with water as an insecticide I cannot speak authoritatively in reference to it.

But the vapor thus generated being in all probability a very poisonous and highly corrosive gas, I would advise extreme caution in its use in the case of palms and other fine foliage plants, from the fact that an injury to the foliage of some plants, notably some of the palms, does not always become visible at once, and therefore the treatment might be repeated before the actual effect was known, unless great care was taken.

In the report of Mr. C. L. Reynolds on this method of fumigation as published in the AMERICAN FLORIST of April 25 (page 1049) the time of exposure was apparently limited to 20 minutes, and the condition of the plants was stated to be entirely satisfactory on "the next day."

In the experiment reported by E. W. P. the plants were exposed to the gas for forty minutes, and at the end of that time they appeared to be unharmed, but on examination a week later many of the plants were found to be badly damaged.

This being a matter of much interest to growers, further reports from those who have tested this remedy will doubtless be welcomed by the trade, many of whom are probably in the same position as the writer, inasmuch that we have tested many insecticides, but so far have found none that would thoroughly clean a badly infected plant from scale in one application without injury to the growth.

W. H. TAPLIN.

Glimpses of Los Angeles, Cal.

One day's drive included the newly made west side park of Los Angeles, where palms of every variety surprise the eye of the traveler. Date palms have their long leaves, and broad leaved palms cast great shadow disks on the lawn.

Can we believe them to have grown in these five years! When last we drove up Bonnie Brae there was no tree in sight,—nothing but wild mustard and squirrels broke the monotony of the rolling surface, all brown and seared with the sun heat. Now we find all this beauty and greenness, and elegant homes about us. A lake at our feet and freshness everywhere. Sails skimming away to the other shore and rowboats innumerable.

The Monterey cybess in all forms imaginable, for even here in far west Los Angeles man tries to improve nature's work by clipping off all its dainty beautiful sprays.

As a whole the place is fair to look upon and it seems as though some fairy had waved her wand here, so wonderful and rapid the growth.

Driving out on the Old Mission Road from Los Angeles to Pasadena, we see on the left an avenue of tall trees quite unkept and irregular. But, waiting one moment beneath the shade we are impressed with its beauty. The eucalyptus trees tower far above us, while interspersed pepper trees droop over our heads and soften the view. A grand sweeping curve delights the artist's eye and reminds one of the old avenues of England.

A. G. W.

Lilium Tenuifolium.

The writer exhibited some 15 or 20 plants in bloom of this rather rare lily at



PALMS FIVE YEARS PLANTED.

IN THE NEW WEST SIDE PARK
GLIMPSES OF LOS ANGELES, CAL.

the June meeting of the Pennsylvania Horticultural Society in Philadelphia. The exhibit caused quite a little comment on account of the unusual size of the plants and flowers, many expressing surprise that this lily could be done so well out of doors, and wondering what the method of culture could be. The grower of these lilies, a gentleman in the northern part of the state of New York, sends me, in a private letter, some hints which I copy for the benefit of those interested:

"There does not appear to be any great secret in succeeding with *tenuifolium*. Those I sent to you were field grown. The location is entirely open and sunshiny, and the soil is fine sand. I find that the more sand the better they do. It is one of the hardiest lilies grown provided it is planted where it cannot be drawn out in winter."

Quite a number in this vicinity have tried this lily as a pot plant for winter flowering in a commercial way; but with rather disappointing results so far. If well done, however, I still think it would be an acquisition to our list of winter flowering plants. For a private conservatory or for out of doors it is certainly one of the most charming of all the lily family.

G. C. WATSON.

Fern Notes.

CLIMBING AND SCANDENT FERNS.

Of these there are only a few that may be recommended for florists' work, the most useful of which is *Lygodium japonicum*, which is more generally known in the trade as *L. scandens*, but as the true *L. scandens* is a very inferior fern, and of no value except as a botanical specimen,

care should be taken not to confuse the two. The true *L. japonicum* is much grown for cutting, the long trailing fronds being very useful for various purposes, and more particularly for the "shower bouquets" now so fashionable. This *lygodium* may be raised from spores, or increased by divisions. The seedlings make very pretty pot plants when about three are grown together and trained up on slender sticks. Young plants are very slow to produce spores, but older plants are very prolific; the spores fall out very soon after they are matured and are lost, but if the fronds are taken at the right time, there will be an abundance of the pale yellow dust-like spores fall out after the fronds get dried. With ordinary treatment the spores germinate freely, and come true. I have had a whole batch with very few weeds among them.

Though quite a cool-house fern, it makes more progress in an intermediate temperature. A good, rough compost, which may consist chiefly of loam will be found to suit it well. One important point is to look after the fronds as soon as they begin to run up, and keep them from getting twisted together. Those grown for cutting may be grown on strings; these should be about four feet long. After the climbing fronds have made a good start they will twine round the strings without much further assistance. I have known good strings of this fern sell for 12 shillings per dozen and about three or four may be grown from a 6-inch pot, or when planted out it does well. A great point is to avoid a dry atmosphere or thrips will make their appearance, and they are very destructive when once they get established.

L. dichotomum is a very distinct species with the basal fronds having long deep green pinnæ, but after they begin to run up they are more distant and narrower. It makes a good pot plant when well grown, and is also a fine fern for covering pillars in the stove fernery; the fronds growing to a great length. There are several other very pretty *lygodiums*, but none except those named are of much service for florists' work. The North American species, *L. palmatum*, though very pretty, never does well with us.

Stenochlæna scandens.—This is a fine fern, which spreads very rapidly when once it gets a good start; the bright green pinnate fronds are produced on rather slender rhizomes. Planted in the rock-fernery or where the rhizomes can cling to a moist wall it is most effective. It may also be recommended as a fine fern for suspended baskets. Seedlings make good pot-plants, but when propagated from the rhizomes they are difficult to keep close and compact, as the older rhizomes do not branch out freely. It will grow in any ordinary compost, and requires a stove temperature. Sometimes plenty of spores may be had, but I have grown plants for years without seeing a fertile frond. The fertile fronds have very narrow pinnæ and are rarely produced except on plants several years of age and which have become a bit stunted in growth.

Davallia aculeata is a curiously distinct example of this group; the fronds continue to elongate for an indefinite period, while the rhizomes spread very slowly. There are other *davallias* which may be termed scandent on account of the slender rhizomes spreading rapidly. *D. heterophylla* will spread over a wall rapidly after it gets a good start. *D. pyxidata* is another; the rhizomes grow erect, and when they come against a moist wall they grow more rapidly than under ordinary pot culture.

Some of the polypodiums may also be included among those useful for covering walls. *P. pustulatum*, *P. stigmaticum*, (venosum), and *P. phymatodes* being good examples. There are also several others of similar habit, all of which make fine specimens when grown on old tree-fern stems, which may be covered first with sphagnum moss, with which may be incorporated a little fibrous peat. Stems two or three feet high when well covered are very effective. A. H.

The New Directory.

Those who have been wise enough to secure a copy of the new directory must feel very proud of the excellent showing the trade makes. That much time and money has been expended upon the work is evinced at the first glance, and it is



PELLEA ANDROMEDÆFOLIA (The California Fern) IN A CONSERVATORY

GLIMPSES OF LOS ANGELES, CAL.

alike a credit to the American Florist Co. and the trade generally. Who would have imagined, say ten years ago, that the trade would have assumed such gigantic proportions, and that such a vast area would be covered with glass, while the amount of capital invested is simply astounding. I fear we florists as a rule pay too little attention to such matters, and in speaking of our business to outsiders, do we ever think to ask if they have any idea of the capital invested or the amount of glass devoted to the cultivation of plants and flowers? Yet every one of us should be well posted so that we can talk intelligently upon such an important subject. Then again if we ask concessions from R. R., express or telegraph companies it is very handy to have something in cold type to show them.

The seasonable hints by President Wm. Scott are alone worth double the price of the book, however well a man may be posted, there are small things at times that will escape him, and perchance when he thinks of what should have been done say a month before, he finds it too late to be of service, be it sowing seeds, shifting plants or taking cuttings, whereas a glance over Mr. Scott's hints now and then, there is no likelihood of his forgetting the work to be done. Then again the lists of roses, carnations, chrysanthemums and cannas are most complete and of the greatest value to every florist. A copy should be found in the potting shed of every well-ordered establishment for the benefit of employees, every florist knows how often he is asked for a chrysanthemum say, that he has never heard of and to oblige a customer will spend half an hour hunting through a stack of catalogues to find it, but without success, and as a consequence is mad at the loss of time, whereas if he had a directory at hand a moment's glance would satisfy him that if it was not to be found there, it was never sent out, so wonderfully complete and up to date are the lists.

No one, be he seedsman or florist, should think of sending out circulars or catalogues by the old lists, which I know

to my cost some do, and the amount lost in stamps and catalogues would buy a great many directories, besides the list is so much larger and there are quite a number of new names to be found that should not fail to receive catalogues.

In conclusion, permit me to extend my hearty congratulation, on the completeness of the directory for '96; this may come a little late but it is none the less sincere.

H. YOVELL.

Cleveland.

It has been definitely decided by the Cleveland Florist's Club, to give a mid-summer flower show to be held in connection with the convention entertainments of the centennial commission next August. While it has long been settled that such a flower show would be held, there has heretofore been considerable uncertainty as to the details. There has been a good deal of discussion one way and another, some designing to make the exhibition absolutely free to the general public, the expenses being assumed by the local centennial committee; others wishing to make the affair free only to the visiting florists, charging outsiders an admission fee and the assuming of all financial risks by the local club.

The final settlement is a compromise. It contemplates a small admission fee to the general public, the free list to be controlled by the florists, while the centennial commission furnishes hall and a liberal allowance for good music. It is believed that under this arrangement a very satisfactory exhibition can be furnished by and to all the interested parties. This compact also gives the florists control of a hall for trade exhibit purposes that is not to be surpassed. It is large, airy, well lighted, with plenty of convenient, roomy entrances, good committee rooms, electric lighting and every convenience that could be desired.

The centennial celebrations will also bring many visitors to the city and in every way circumstances seem to point to a most favorable consummation. It



VIEW IN A CALIFORNIA GREENHOUSE.
GLIMPSES OF LOS ANGELES, CAL.

should also be said that the competition is open to all, premium lists being obtainable by application to the club secretary, Wm. J. Leitch, Doan St., Glenville, Ohio, or of Mrs. E. G. Wilson, 606 Jennings Ave., Cleveland. Trade exhibit is in charge of E. Cushman, Euclid, Ohio. While upon convention topics, shooters and shooting clubs will please take notice that the committee on shooting would like to hear from all who desire to participate. They wish to know how many members will attend from each club, and all who have the necessary implement and skill to come prepared to do business with the record. They promise a good time and a hearty welcome. Communicate with S. N. Pentecost, 707 Republic St., Cleveland. Committees on bowling, entertainment and so forth will be heard from shortly.

From pleasure to business is a reversal of the proper order, but it finds its excuse in the small amount of the latter now on hand. Up to the last week, business showed a slight recovery from its previous lethargy, owing probably to the fact that a great many people were winding up their social affairs for the season, paying off their society debts, getting married and otherwise fulfilling the obligations of life. These various matters had a slight tendency to banish the winter of a florist's discontent, and land him in the lap of financial summer, but the little flurry is dying out again and things are once again becoming deadlly dull. We are pretty well supplied with moisture, having had lately a number of very satisfactory rains, so that outside stock, taking the rainfall and early, warm spring into account, shows a very fair condition for the time of year. Sweet peas are just opening outside now with most of the growers. They look very well on the average everywhere. Inside stock like roses and carnations, begins to show up very

poorly; roses, especially, being mostly very small, of poor substance and in many cases badly mildewed. Carnations cut look fairly well, but the plants inside look very poorly in most establishments, Daybreak being usually the worst, and Sweetbriar, McGowan and Scott the best in appearance, usually in the order named. Asters look fairly well outside, though with some they show an aggravating tendency to flower at so small a size as to render the flowers too short stemmed and small for much use. Maybe this early flowering is a wise provision of Mother Nature to get the best of the black aster bug. Some such expedient seems to be very necessary, as otherwise if that soberly attired "cuss" shows his customary annual increase the florist's outdoor crop of aster flowers will soon be exceedingly scanty.

Not much building has so far been done this year. The outlook is not sufficiently encouraging either in sales or prices to justify much of the sort. R. Addicott, formerly gardener for H. S. Blossom, and locally known as a most prolific producer of chrysanthemum seedlings that approach very closely to standard varieties in merit, is about the only exception so far. He has gone into business, putting up a couple of good-sized houses, that will probably be steam heated. A.

Boston.

Although the great avalanche of spring bloom at the Arnold Arboretum has departed Mr. Dawson has yet much that is pretty and interesting to show. His special pets, the wild roses, are about past, but *Rosa gallica* in various forms is still gorgeous with many tinted flowers. *R. Wichuraiana* is yet to come, and the lovely *R. setigera* is fairly loaded with unopened buds. The hybrids from *Wichuraiana* and *multiflora* are especially

interesting, particularly as one listens to Mr. Dawson's enthusiastic pictures of future possibilities in these crosses and the good things which may yet come from persistent work on these lines. The philadelphuses have been very fine this year. Some are still flowering. One of the prettiest late bloomers is *P. microphyllus*, a recent acquisition from the Rocky Mountains, with jasmine-like sweet-scented pure white flowers. *Hydrangea vestita*, the earliest of the hydrangeas, is now in bloom, and buds are showing plentifully on *H. paniculata*. The verges of the drive-ways are brilliant all along with masses of the golden *Genista tinctoria*. Still lovelier in color and form is *Cytisus nigricans*, which is blooming in the nursery, and is well worthy of a place in every garden. The small ponds planted by Mr. Dawson last year already look as though they had always been there, so quickly have the nymphæas, sedges and bog plants made themselves at home. *Myosotis palustris* blooms freely in the low damp spots; the tall magenta-purple spikes of *Lythrum salicaria* make a fine contrast with the odd variegated reeds or juncus, and wild rice takes as kindly to its surroundings, apparently, as though it were on the shores of the Delaware.

The exhibition at Horticultural Hall on Saturday, June 27, was almost a rival for the regular rose show, so perfect were the blooms and so extensive were the displays. Nearly all the contributors to the earlier show were on hand, and such grand varieties as Earl of Dufferin, Her Majesty, Margaret Dickson, May Turner, Rodocanachi, Marchioness of Londonderry, Marie Rady, etc., were shown in perfection, especially by M. H. Walsh and Jas. Comley. Mr. Walsh exhibited again the two seedlings, which were received with much favor at the rose show, Lillian Nordica, a remarkably free blooming sulphur white hybrid from Margaret Dickson and Mme. Hoste, which received a certificate of merit, and a rich dark cross from Pierre Notting and Prince Camille de Rohan, which he has named Jos. S. Fay, and which received honorable mention, besides several other promising seedlings. Mr. Comley showed for the first time Mosella, the so-called Yellow Souper. This rose will have to show up better than it did on this occasion if it is ever to become popular. It would take a wide stretch of the imagination to find any suggestion of yellow in the insipid white blossom exhibited.

The collections of hardy herbaceous flowers from the Harvard Botanic Garden, J. W. Manning and Rea Bros. were a leading feature of the exhibition, and Dr. Weld's campanulas, sweet williams and delphiniums were very handsome, also W. H. Cowing's English irises and J. L. Gardner's Iris Kämpferi.

The annual reunion and strawberry festival of the Gardeners' and Florists' Club on Monday evening was a splendid success. The ladies and children were present in goodly number and the program prepared by President Cotter and Secretary Dawson was thoroughly enjoyed. Misses Gunn, Dawson, Lydon and McSorley and Mrs. P. Welch rendered piano selections and Mabel Grey gave a recitation. There were mandolin solos by Mr. Geo. Barker, banjo playing by Mr. Lydon, and recitations both humorous and pathetic by the club's star performer, Mr. Lawrence Turley. Then followed a collation with no end of ice cream, and after that came dancing, the Virginia reel furnishing an opportunity for some of the older members to show their agility although long out of practice.

Mrs. Samuel Neil and four children sailed for England on June 27 per steamer Cephalonia.

Mrs. Warren Ewell is seriously ill.

Visiting Boston: A. M. Rennie and T. O'Conner of Providence.

New York.

July stillness has settled down on the city flower trade, and those who have not gone already are making preparations to depart in quest of summer recreation. The best that can be said is that trade is better than at a corresponding date last season. Carnations are selling well and prices are maintained fairly all along the line.

D. Y. Mellis sails for a short European trip on July 4; he expects to return in time to serve in the Flatbush bowling team at the Cleveland contest in August. The club's good wishes were expressed by the presentation of a handsome silver cup at the meeting last Thursday.

The Gardeners' Society will give an informal reception at its rooms, 64 Madison avenue, on the evening of Saturday, July 11, at which time the medals awarded at the recent exhibition will be given out. Visitors will be cordially welcomed.

In last week's New York notes it was said that Wm. Nilsson used ten thousand echeverias in his bedding trade last spring. The number should have read seventy thousand.

Theodore Outerbridge of Bermuda is in town.

St. Louis.

The last few days of the week we have been without rain, and the bright weather has made the business a little better with some of the florists; others are still complaining of dull business. There is not an over supply of stock in the market, and the little that comes in is very poor. The greatest stock now at the commission houses is sweet peas, feverfew, cornflowers, larkspur, hollyhocks, balsams and candidum, a few roses and carnations. The few good roses that come in bring \$2.50 and \$3; carnations \$1.25 and \$1, sweet peas 15 and 25 cents per 100, with very little sale for the other stuff. Tesson is cutting about the only Beauties that come in; they are very good and sell for \$10 to \$12.50 per 100.

The picnic committee held a meeting at the office of Chairman Kunz, the picnic will be held about July 22, the location has not been learned as yet; a committee was appointed to look for grounds, consisting of Chas. Young, E. Schray, Fred Weber, R. Beyer, J. W. Kunz and J. J. Beneke. A game of baseball will be played between the wholesale men and the retailers. The subscription lists will be out in a few days and can be found at all the commission houses; a prize has been offered to the commission houses that has the largest list of subscribers. Bowling, quoits, baseball, shooting, running races and jumping will be the features of the picnic.

Alex. Johnson, at Wellston, is building two new houses 50x25.

C. C. Sanders and Tom Carroll are very busy just now with building new houses. Sanders is building new ones, and Carroll is rebuilding his old ones; both expect to be in good shape for the fall trade.

A. L. Vaughan, with J. C. Vaughan, Chicago, is a visitor this week.

Wm. A. Haupt has left the Houseman Floral Co. He expects to go back to New York in a few days.

The next meeting of the Florists' Club



A EUCALYPTUS AVENUE:
GLIMPSES OF LOS ANGELES, CAL

will take place July 9 at 3 p. m.; two essays will be read.

Monday night we had fine weather, and the bowlers were out in full force; 10 members rolled. Fred Weber was high man of the night, rolling 624 in three games; Emil Schray was second, 577, and J. J. Beneke third, 523. Helwig was high on single score, 223, and Weber second, 221. This ended the June series of nine games. Emil Schray again wins the medal, his total being 1,542; Beneke second, 1,470; J. W. Kunz third, 1,414. Fred Weber had the highest single score of the series, 229. Mr. A. L. Vaughan was a visitor to the Bowling Club, and rolled a few games with the boys. Mr. Vaughan has not forgotten how to bowl, as he made some very good scores and asked me as a personal favor not to publish them. Next Monday night the July series begins, and a good crowd is expected. J. J. B.

Philadelphia.

It is scarcely worth while to say anything about the state of business, although it is as good as usual for the season of the year. The weather here is delightful, but the customers are very likely enjoying just as good or better in their country retreats and the efforts of the bureau in this direction avail us nothing. Prices of roses are about the

same as last week, and there is likely to be no further change until the season opens in the fall. The Meteor is now one of the most popular varieties. It seems to do well at all seasons, and while other kinds are plainly showing the effects of long forcing and hot weather, it is now almost as good as in winter. Jos. Kift of Westchester is sending in some good flowers of the hardy white pea; the blossoms are produced in larger clusters than the common sweet peas, and make a very acceptable addition to the summer assortment. It blooms very profusely and should be grown by florists generally, particularly by those who retail their own stock.

Harry Bayersdorfer returned last week from his annual European hunt for novelties. He seems to have been more fortunate than usual, and a look into some of the early importations reveals some very good things. His novelties in artificial foliage combined with fruit and flowers are fine, and there are many new ideas in porcelain flower designs. He reports business in his specialties in Europe to be very good, as most of the manufacturers seemed very well satisfied. He says the only way to do business now is to keep with and a little ahead of the times if possible, and to get novelties one has to go after them and not wait for them to come.



THE FLORISTS' GUN CLUB OF PHILADELPHIA.

The July meeting of the Florists' Club will be largely taken up with Convention matters and the proposition of the National Society looking to the closer connection between the different local organizations and the central body. The idea appears to be a good one and likely to be of mutual benefit.

Building and rebuilding is going on actively in every direction and there is hardly a place in this neighborhood that is not enlarging a house or two, or erecting a new one. It would seem as if there should be by this time a certain form or construction of house that by general consent could be called the standard. So many houses have to be rebuilt after but a few years of service that it would appear as if there was some fault in their construction that might have been remedied had a little more thought and investigation been given the matter before building was commenced.

It takes a good deal to upset W. J. Baker, the Penn Square commission man, but with his wagon it's different and his son narrowly escaped a serious accident in a collision with another wagon which turned his completely over; fortunately there was little harm done beyond a few scratches and a big scare.

It does appear that if the bowling contingent of this village does not get together soon and hump themselves they will make a sorry showing at Cleveland. A new cup would look well in the case along with the others when the new club room is opened next October, and while it is likely to require good bowling it is worth the effort, and we hope the experts will give this matter some thought in the near future. K.

Florists' Gun Club of Philadelphia.

The illustration gives an excellent view of the Philadelphia gunners at their Club House near Wissinoming Station. The photograph was taken just after the genial "Deacon" (W. K. Harris) had won the Donaldson medal for the month, and he was beaming on the whole world like a burst of sunshine. You can see this for yourselves by looking at the end figure on the bench to the left of the picture.

George Anderson, who occupies the other end of the seat, is the captain of the team and looks happier than might be expected, considering that he has a newspaper man to right and left of him. George's great grievance at present is the way his club has handicapped his shooting. Although he is their crack shot it is next to impossible for him to ever win the medal. However he gets his revenge out of them by arguing the fine points of the case with all the ardor of a true descendant of the Covenanters. How those North of the Tweed people do love an argument! They sniff the battle from afar off and glory in the wordy fray. George has already argued more than one of his colleagues into a state bordering on nervous prostration on this handicapping matter.

The other man on the seat in his shirt sleeves is Chas. D. Ball, president of the Gun Club. The tall young man with the soft hat and the blue jersey sitting next to Mr. Ball is the secretary of the Gun Club, Mr. Bart Cartledge. Bart and his father (Thomas Cartledge, who stands behind his son a little to the right in the picture) are both enthusiastic gunners and good shots. Back of W. Harris is another genial member of the Gun Club, Mr. Jno. Westcott, celebrated chiefly because he doesn't shoot. But John makes up for this by his activity in other directions. For one thing, he can catch and eat more fish than any of them and is always ready and willing to challenge any one for a trial of skill in that direction.

John Burton, who stands left of Mr. Harris with a soft hat, a cigar and a smiling countenance, was the ruling spirit in organizing the Gun Club, and was its first president. He divides honors with George Anderson as a crack shot. On the other side of Mr. Westcott is George Craig, a crack bowler on the Phila. team and coming rapidly to the front at the targets. The other figures in the picture were visiting shooters (mostly from the University of Pennsylvania) excepting the one with the gun on his shoulder behind and to the left of George Anderson, who is W. H. Taplin, well known by his frequent contributions on cultural sub-

jects to most readers of the AMERICAN FLORIST. He dearly loves a day at the traps.

Altogether this picture contains a good representation of the Florists' Club gunners of Phila., although some of the enthusiasts were absent the day the picture was taken.

Some may ask: What does all this sporting and recreation among the florists amount to? Perhaps a good answer to this would be to state that these men with their sporting instincts are the cream of the successful men in their line of business, and they have always taken their recreation in fair proportion with their work, and both with the greatest zest. If these men hadn't ordered their lives in this sensible fashion it is questionable if they would have made the same successful business men that they now are. But a better argument to my mind is John Burton's remark, "What's the good of living in this world if you can't have some enjoyment?" What, indeed! Many men's idea seems to be to work like a steam engine for a few years, until they break down with nervous prostration, and then spend the short balance of their miserable lives chasing health easily and foolishly lost; but mighty hard to find again. G. C. WATSON.

Phila. June 18, '96.

[And the gentleman seated next to Mr. Harris is Mr. Watson if we are not much mistaken.—Ed.]

Chicago.

To give a report of the flower market this week would be rather a difficult matter, since, according to those concerned there isn't any market. The choicest select roses do sell, prices for Meteor, Kaiserin and extra Bridesmaid being \$3 to \$4; good Perles also sell, but the low grade roses can only be sold by the armful, for anything they will bring. Good Beauties also are still in demand, the best going for \$2.50 a dozen. But everything is very slow; with last week the active demand ceased entirely, and the extreme heat of the last few days is very detrimental to business. A good deal of replanting is going on now, and the best roses are from new stock, planted last March.

White carnations are in good demand for funeral work; they are not plentiful, and the best bring \$1.50. Sweet peas are an absolute glut; the quantity coming in is tremendous, and there seems really no demand for them. White are quoted at 25 cents a hundred, colored 15 cents. Cornflowers keep a steady demand at 25 cents a hundred. Tiger lilies are quite plentiful and sell for \$6 a hundred stalks; candidum is about past, a few coming yet from Wisconsin and other northern points. Longiflorum is \$1.50 a dozen. The florist really has nothing to look forward to now, except funeral work.

Bassett & Washburn are now grading and otherwise preparing the ground for their new block, which is to comprise 100,000 square feet, built in the most approved style, with all improvements. It is to be devoted to Beauties.

Mr. Washburn and family, accompanied by a party of friends, start this week for Oconomowoc, where they will spend their summer vacation.

Richard E. Evans, a leading florist of Salt Lake City, visited the city and some of its plant growing establishments this week. Mr. Evans reports very satisfactory trade at Salt Lake. He has recently purchased three acres centrally located,

and will build on and otherwise improve the same.

Visiting Chicago: J. A. Evans, Richmond, Ind.

Omaha.

Decoration Day has passed, and we are not at all sorry for it. Both the week preceding and following May 30 were busy ones, but now business has slackened up, and most of the florists are beautifying their own grounds. The volume of spring business was about the same as former years, but the proceeds were not as large, owing to the decrease of from 15 to 25% in retail prices. Three-inch plants brought from 50 to 75 cents per dozen, while 4-inch geraniums sold as low as \$1. With plants there was not a heavy demand for any one variety; plenty of geraniums to be had yet, but alternanthera is a little scarce. The growers all had a larger supply this year than last, as the hail of a year ago damaged a great deal of stock. Spring opened up much earlier than usual, and paeonies, snowballs and most of the outside stock usually relied upon was gone, and what there was was very soft and brought poor prices. The demand for roses and carnations was heavy owing to the scarcity and quality of outdoor stuff.

The demand for cut flowers among the school children for Decoration Day was more noticeable than former years. The bedding and vase work at the cemeteries was also quite heavy. S. B. Stewart, the only local dealer handling the iron reservoir and terra cotta vases, reports his sales heavier this spring than any year previous. Mr. Stewart carries quite a heavy stock of fancy pottery and florists' supplies.

The demand for funeral work the latter part of last week was very good, owing to the death of a very popular railway man. Hess & Swoboda made a bill of lading and A. Donaghoe had a large shield in colors, the emblem of the Union Pacific Railway, with which deceased was connected for a great many years. S. B. Stewart lined the grave and arranged floral pieces after their arrival at the cemetery.

Mr. A. L. Vaughan, with J. C. Vaughan of Chicago, was a pleasant caller last week. Mr. Vaughan has been recruiting on the Pacific coast for several months past, and we are pleased to see him able to attend to business again.

Late visitors: Mr. Roach, with Jerome B. Rice & Co., Cambridge, N. Y.; James B. Kidd, with Sunset Seed and Plant Co., San Francisco; E. Corbin, Grand Island, Nebr.

G. R. H.

Denver, Colo.

A severe hail storm visited Denver the afternoon of the 25th, doing considerable damage to the trees and outdoor stuff, but fortunately breaking but little glass.

Mr. G. B. Cannon of Lafayette, Colo., was in the city June 27 purchasing material for new houses to replace those destroyed by hail recently. Mr. Cannon will build a rose house 18x75 and four houses 100x11 feet each.

The Park Floral Co. is building a large carnation house 50x150, a duplicate of the one they already have.

The Park Commissioners have decided to build a palm house 25x100 at the city park. Work will be commenced on it at once, and it is expected that it will be completed by Sept. 1. Superintendent Graham has finished his planting out at the various parks and everything looks fine, the carpet bedding at the city park

being especially neat. A large group of palms, crotons and other tropical plants planted near the main entrance attracts much attention and is decidedly in good taste. The new lake and mammoth pavilion are nearing completion and will, when finished, add much to the beauty and attractiveness of the park and also (it may be remarked incidentally) much more labor to Supt. Graham's force.

Denver florists are mourning the retirement from business of one F. L. Zeigler, formerly of the state of Washington and recently of Cripple Creek. Zeigler came to Cripple Creek last fall and opened a retail store. Purchasing stock both in Denver and Colorado Springs he became acquainted with the trade and received the usual courtesies. The result is, the Colfax Florist Co. of this city hold his dishonored check for a large amount, the Colorado Florists' Exchange are out several large shipments, which were refused by Zeigler, also a book account of a few dollars. At least one Colorado Springs grower is stuck and probably more. Mr. Zeigler's present whereabouts are unknown.

The Colorado Florist's Exchange has opened up a line of florists' supplies in addition to their regular commission business. Manager Lewis reports business good for this time of the year. The election of officers for the ensuing fiscal year, also the annual meeting of the stockholders of the Exchange will be held 7:30 p. m., July 7.

Mr. Fred Hall of Montclair will sail for England on a short visit to his old home, early in July. Whether he returns married or single is of course a matter concerning no one but himself.

Many large orders were placed for the occasion of the monster reception given Senator Teller July 1. The Senator was lionized socially as well as politically, all Colorado turning out to do him honor. Colorado being a "woman's sufferin'" state the female voters take equal interest in such events with the men folk.

The supply of strictly first-class roses is about equal to the demand, garden roses are not very plentiful, carnations plenty and good. X X X.

West Hoboken, N. J.

Mr. Ernst Asmus is in Europe; he is expected to return about the 15th of August. During his absence the work of preparation for the coming season is being pushed forward by his foreman, Mr. Kuf. The five houses planted with "the new rose" are looking very promising. Mr. Asmus expects to give the trade a surprise next winter. Testout is grown here in large quantity, and at the present time the flowers cut are of good quality and fine color. The greatest trouble is in keeping the color after cutting, as after they have been on ice over night they pale so much.

Belle Siebrecht has done well here and will be planted in a larger quantity for the coming season. Meteor is grown, too, with much success; a number of houses filled with it look very well; both old and young stock. The flowers cut at the present time are of excellent color, only you cannot be sure of cutting good ones, it seems to do best in cold weather. The six houses of Bridesmaid look well and have done well during the past winter. This rose is always in demand. Madame Hoste looks well, but is not much in demand this year. Of course the American Beauty looks well. Other roses grown by Mr. Asmus include Kaiserin, Victoria, Cusin and Bride.

This place is sending in some very fine cold storage valley; the flowers are as hard and good as the best winter stock. Wm. Scott has been the best carnation from a business standpoint. The plants that were planted last August are still flowering profusely and the flowers are large and of a fine color. Storm King did very well, and will therefore be planted in larger quantities for the coming season. Bouton d'Or has not been satisfactory; it did not flower well during the winter and now the flowers are small. Helen Keller has not done well either; half the flowers seem to "go to sleep." Daybreak has proved useful and satisfactory.

Mr. Asmus has erected various new houses this summer and expects to add still more to his extensive plant.

S. M. T.

Cincinnati.

There has been no change in the general run of business the past week. The majority of June weddings and social gatherings are now over and the retail stores have assumed the quiet appearance usual in summer. Our growers are now busy rebuilding and replanting. One of the most artistic floral pieces sent out of this city was an immense ball 3½ feet in diameter, made by Sunderbruch's on June 29, for a wedding at Charleston, W. Va. The design was composed of roses and carnations, with a finishing touch of orchids and maidenhair fern.

Mr. E. G. Hill of Richmond, Ind., was a visitor in this city the past week.

Mr. John Raising of the Cambridge Pottery has been on the sick list, but is up and around again. We are sorry to report the illness of Mrs. Albert Heckman of Covington, her life was despaired of last week, but she is now slowly improving and we wish her a speedy recovery.

H. SCHWARZ.

Syracuse, N. Y.

At the last meeting of the Central N. Y. Horticultural Society R. Bard was unanimously elected secretary in place of H. Youell, resigned. The society has received its World's Fair diploma and medal for fruit exhibit, which was beautifully gotten up.

The anticipated chrysanthemum show was discussed and a look round various places show the boys are right in it, Mr. Phillips is an amateur enthusiast in the 'mum line and by the look of his plants some of the professionals will have to look out, one of his Lincolns is already three feet through and a model.

Trade has been very brisk lately in the cut flower line, exercises, weddings and funeral work have given the florists about all they wanted to do.

Peter Crowe of Utica gave us a call last Saturday; he came to do up one of the boys on the bowling alley, but luck was against him. However, he's a good natured fellow and went home all smiles just the same.

ALPHA.

Harrisburg, Pa.

Considering the season business has been rather brisk than otherwise during the past week or two. Between school commencements, a few weddings, etc., and a fair amount of funeral work, the florists have been kept more or less busy.

The Melrose Floral Co. have removed to their new quarters, 410 Market street, the principal thoroughfare in town. Aside from an attractive and well equipped store, they have also built four houses,



NEW CANNA BURBANK NEARLY NATURAL SIZE.

two of which cover 20x56, one 14x20 and one 12x56 adapted for ferns, smilax, palms, etc.

Mr. J. Schmidt, the pioneer florist of Harrisburg is enjoying good, robust health, notwithstanding his advanced age. Mr. Schmidt is one of those "young" old men who can enjoy a good joke as well as the jolliest of them and who regards the world from the standpoint of the advanced thinker and the practical experienced man.

HOMO.

New Canna Burbank.

This is a new American variety, to be sent out in 1897. It belongs to the

orchid-flowered section, and certainly shows an advance over any other yellow we are acquainted with. The flower is boldly formed, measuring 5 to 6 inches across its spread, outer segments 2 to 2½ inches across; color a deep pure yellow, the lip and throat splashed red. The outer segments are entirely free from any red, and there is much less red in the flower than in Italia, which more nearly approaches it than any other variety. But the Burbank has several points of advantage over Italia, and not the least of these is its substance; the flowers are firm in texture, and borne in a much larger spike than Italia. After a spike is

cut the buds continue to open. The foliage is green, ovate-lanceolate, extremely thick and leathery; growth not quite so tall as Italia. If we may judge from appearances, this variety will be a good bidder, owing to its vigor and substance; it will be carefully tested this summer. Its parentage is *Canna flaccida* and *Mme. Crozy*. It was originated by Luther Burbank of Santa Rosa, Cal., and will be introduced by J. C. Vaughan, the spike of bloom figured being photographed at his Western Springs establishment.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.
Subscriptions accepted only from those
in the trade.

Advertisements, 10 Cents a Line, Agate;
Tuch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
wares pertaining to those lines ONLY. Please to
remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure
insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

Toronto.

School commencements and such like
gave a little spurt to business last week,
and made things lively for a while, but
now they are over there is very little to
look for until the commencement of next
season.

Several changes have taken place lately.
Mr. W. Tidy has left the Yonge street
store. Mr. F. Burfitt has left the store
and greenhouses on Wellesley street, and
Mr. W. Tidy has taken hold of them. Mr.
C. Tidy still holds the fort on King street.

The weather keeps very dry; there was
a short heavy shower on Sunday, but its
effect was not visible 24 hours after; a
good steady rain is badly wanted.

Now that the dull season has begun it
may be possible for one to visit one's
neighbor a little more perhaps, and I
hope soon to be able to give a few notes
on whatever the neighbors about here
have worthy of mention. E.

Pittsburg.

The club meeting on the 25th of June
was well attended and very interesting.
The committee appointed at the previous
meeting, to enquire into several alleged
abuses, declined to act on it, and a new
committee consisting of Messrs. Oebmler,
Snyder and Ernest Ludwig was appointed
to attend to the grievance. Five new
members were elected as follows: Wm. Fal-
coner, superintendent of Schenley Park,
Pittsburg; John J. Murchi, Sharon, Pa.;
Chas. Kerr, Duquesne, Pa.; Archie Elliott
of Elliott & McGinness, Pittsburg, and
John Dummett of Elliott's nurseries,
Allegheny City. The coming convention of
the S. A. F. was thoroughly discussed,
the opinion of those present is that our
club will be fully represented in Cleveland.
REGIA.

Council Bluffs, Ia.

J. R. McPherson made a change in his
affairs the fore part of this month by
taking in a partner for a half interest in
his florist business. McPherson & Reed
will be the style of the firm hereafter. Mr.
Reed is an ex-county treasurer and has a
large circle of friends both in this city and
Omaha. This change affects the floral
part only of Mr. McPherson's business he
continues his large vegetable plant as
before.

Wm. Foster, foreman for above firm is
rejoicing over the birth of a bright bounc-
ing girl the fore part of this month.

G. R. H.

Worcester, Mass.

Trade continues very fair with now
then a wedding to help keep down the
surplus, flowers are plentiful and the
quality good, carnations especially.

Last week's exhibition was very fine,
better roses being shown than at the
regular show. H. F. A. Lange took firsts
on display of roses and cut flowers, F. A.
Blake first on Canterbury bells, Mrs. S.
F. Bennett on sweet williams. A nice dis-
play of wild flowers was exhibited by
Arta Pierce.

Tom Butterworth of South Farming-
ham paid us a visit Monday. A. H. L.

Germination of Tree Seeds.

I would like to know how long it takes
magnolia and tulip tree seeds to germi-
nate. J. M.

Salem, Oregon.

Magnolia seed should be stratified
through the winter and planted in early
spring. If stratified they will soon come
up, and grow off nicely. A great many
seeds are planted as late as March and
April; they come up during the spring or
summer, but I do not know just how they
are treated.

Tulip poplar planted in early spring
come up first year. J. H. H. Boyd.
Cagle, Tenn.

WE LEARN from a daily paper that a
western florist recently "imported the
swainsona from Russia." The dailies are
a great source of horticultural informa-
tion.

COMPLETE LINE OF SUPPLIES
WIRE WORK
WE MAKE IT
IMPORTERS OF
BULBS
PHONE 1273
BOX 75
ALWAYS ON HAND
FINE STOCK
CUT FLOWERS
ELLIS & POLLWORTH
MILWAUKEE WIS.

WISCONSIN FLOWER EXCHANGE,
CUT FLOWERS,
Palms, Ferns and Growers' Stock.

FLORAL ARRANGEMENTS, STORAGE
AND COMMISSION.
Box 87. MILWAUKEE, WIS.

C. A. KUEHN,
Wholesale Florist,

1122 PINE STREET,

ST. LOUIS, MO.

A complete line of Wire Designs.

H. L. SUNDERBRUCH,
Wholesale Florist

4TH AND WALNUT STREETS,
Cincinnati, O.

DAN'L B. LONG,
FLOWERS AT WHOLESALE.

Strictly Commission Business.

SUPPLIES, ETC.
LISTS FREE.

BUFFALO, N. Y.

Prepare Advs. Now

FOR OUR

CONVENTION
NUMBER

TO BE ISSUED

AUGUST 15.

WHOLESALE FLORISTS
JOEBERS IN
FLORISTS'
SUPPLIES,
FLORISTS'
VASES.
METS,
BRIDES,
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.
84 Hawley Street,
BOSTON, MASS.
HORTICULTURAL AUCTIONEERS.
Mention American Florist

WELCH BROS.**Wholesale Florists,**

NO. 2 BEACON STREET,

Near Tremont St.,

BOSTON, MASS.

Asparagus Plumosus Nanus.

Cut Strings, 8 to 10 feet long,

50 CENTS.

W. H. ELLIOTT, Brighton, Mass.

The Boston Flower Market

is prepared to purchase, on order, and
ship Trade orders for Cut Flowers at
prices ruling in the market on day of
Sale. TERMS STRICTLY CASH.

Address **WM. J. KENNEDY, Mgr.,**
Flower Market, Park St., BOSTON, MASS.
Long Distance Telephone "Haymarket 68."

SAMUEL S. PENNOCK,
Wholesale Florist

1612 & 1614 BARKER STREET,

Bet. Market & Chestnut. PHILADELPHIA, PA.

A. & F. RÖLKER,
Down-town Wholesale Florists,
106 & 108 Liberty Street (Basement),
NEW YORK.

BRILLIANT GREEN AND BRONZE
GALAX LEAVES,

For Decorating and all Florists' Designs.
CHAS. H. RICKSECKER, Linville, Mitchell Co., N. C.

When you write to any of the ad-
vertisers in this paper please say that
you saw the advertisement in the
American Florist.

E. H. HUNT,
WHOLESALE FLORIST
68 Lake Street, CHICAGO.

WHOLESALE CUT FLOWERS.
SEEDS, BULBS AND ALL
FLORISTS' SUPPLIES

KENNICOTT BROS. CO.
Wholesale Cut Flowers
and FLORISTS' SUPPLIES,
88 Wabash Avenue, CHICAGO.

Winter & Glover,
Successors to T. J. CORBREY & CO.
Wholesale Commission Florists
59 Wabash Ave., CHICAGO.

If you want First-Class Flowers, properly packed and delivered on time, send us your orders and you will get what you want.

We are now prepared to furnish Florists' Wire Designs and a full line of Florists' Supplies.
WRITE US FOR OUR ILLUSTRATED CATALOGUE.

Bassett & Washburn,
Successors to J. B. DEAMUD & CO.,
CROWERS and
WHOLESALE **CUT FLOWERS,**
DEALERS in
88 Wabash Avenue,
CHICAGO.
HEADQUARTERS FOR AMERICAN BEAUTIES.

Reinberg Bros.
WHOLESALE CUT FLOWERS,
51 WABASH AVENUE,
Telephone Main 4937. **CHICAGO.**
Our Roses best them all, in quality.
Headquarters for fine American Beauties.

W. E. LYNCH,
WHOLESALE CUT FLOWERS,
Wire Designs a Specialty.
59 WABASH AVENUE,
CHICAGO.

ROGERS PARK FLORAL CO.,
Wholesale Growers of
CUT FLOWERS,
41 WABASH AVENUE,
CHICAGO.

We are prepared to fill your orders with first-class flowers. Give us a trial order.

A. G. Prince & Co.
WHOLESALE
COMMISSION FLORISTS,
88 Wabash Avenue,
Telephone Main 1088. **CHICAGO.**
Consignments solicited. Prompt attention to all orders.

Prepare Advs. NOW
FOR OUR
Convention Number,
TO BE ISSUED
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Wholesale Markets.

Cut Flowers.

NEW YORK, June 30	
Roses, Beauty.....	1.00@15.00
" all other varieties.....	.50@ 4.00
Carnations, ordinary.....	.25@ .50
" fancy.....	.50@ 1.00
Sweet peas per 100 bunches.....	1.50@ 3.00
Valley.....	2.00@ 4.00
Harrisell.....	4.00@ 6.00
Mignonette.....	.50@ 1.00
Adiantum.....	.75 @ 1.00
Asparagus.....	40.00@50.00
Smilax.....	8.00@10.00

BOSTON June 30.	
Roses, Gontler, Niphetos.....	1.00@ 2.00
" Perle, Mermet.....	2.00@ 3.00
" Bride, Bridesmaid, Meteor.....	2.00@ 4.00
" Beauty.....	5.00@15.00
Jacqs (outdoor).....	.50@ 2.00
Carnations.....	.25 @ .50
" fancy.....	.50 @ 1.00
Valley.....	4.00
Longiflorum.....	6.00@10.00
Mignonette.....	.50@ 1.00
Sweet peas.....	.25 @ .50
Adiantum.....	1.00
Smilax.....	15.00@20.00
Asparagus.....	50.00

PHILADELPHIA June 30.	
Roses Beauties long.....	10.00@16.00
" medium.....	8.00@15.00
" short.....	2.00@ 5.00
" Brides, Bridesmaid, La France etc.....	2.00 @ 4.00
" Kaiserin.....	3.00@ 4.00
Carnations, fancy.....	1.00 @ 1.00
" first quality.....	.50 @ .75
Sweet peas.....	15.00@20.00
Smilax.....	35.00@50.00
Asparagus.....	1.00
Adiantum.....	1.00

CHICAGO, July 2.	
Roses, Beauties.....	8.00@20.00
" second.....	4.00@ 6.00
" Brides, Bridesmaid.....	2.00@ 3.00
" Meteors.....	3.00@ 4.00
" Perle, Wootton.....	2.00
" Testout.....	4.00
" Kaiserin.....	4.00
Carnations.....	.75@ 1.25
" fancy.....	1.50
Longiflorum.....	8.00
Auratum.....	8.00@15.00
Candidum.....	2.00@ 3.00
Valley, cold storage.....	4.00
Sweet peas.....	.15@ .25
Campanulas, per bunch.....	.25c
Coreopsis.....	.25
Gypsophila, per bunch.....	.25
Cornflowers.....	.25
Smilax.....	15.00@18.00
Adiantum.....	1.00

ST. LOUIS, July 1.	
Roses, Beauties, long.....	12.50
" short.....	2.00@ 4.00
" select stock.....	2.00@ 3.00
" general stock.....	1.00
Carnations, fancy.....	1.25
" common.....	1.00
Valley.....	3.00
Cornflowers.....	.25
Daisies field.....	.15
Sweet peas.....	.15 @ .25
Asters.....	1.00
Hollyhocks.....	1.00
Candidum.....	3.00
Smilax.....	30.00@15.00
Ferns, Adiantum.....	1.00

GEORGE A. SUTHERLAND,
Successor to PECK & SUTHERLAND,
Successors to WM. J. STEWART.
Cut Flowers and Florists' Supplies
WHOLESALE.
67 Bromfield St., BOSTON, MASS.
New England Agent for the GREAT ANTIPEST.

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MENTION
THE
AMERICAN
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EVERY TIME
YOU WRITE
AN
ADVERTISER.

John I. Raynor,
49 WEST 28th STREET,
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SPECIAL EXTRA STOCK OF
AM. BEAUTY, METEOR,
BRIDESMAID, BRIDE.
Grown particularly for summer trade.

DISBUDED CARNATIONS.
FANCY GRADE.

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Cut Flowers,
WHOLESALE,
43 W. 28th Street, **NEW YORK.**

WALTER F. SHERIDAN,
WHOLESALE
FLORIST,
39 West 28th Street, **NEW YORK.**

Roses shipped to all points. Price list on application.

Edward C. Horan,
34 W. 29th Street, **NEW YORK,**
WHOLESALE • FLORIST.

Careful Shipping to all parts of the country.
Price list on application.

Purdy & Blauvelt,
WHOLESALE DEALERS IN
CUT FLOWERS,
57 W. 30th St., **NEW YORK.**

JOHN YOUNG,
FINE ROSES
WHOLESALE,
51 West 28th St., **NEW YORK.**

FRANK MILLANG,
CUT FLOWERS,
WHOLESALE, COMMISSION,
408 E. 34th Street,
Cut Flower Exchange, **NEW YORK.**

JULIUS LANG,
Commission Dealer in Cut Flowers,
WHOLESALE,
53 West 30th St., **NEW YORK CITY.**

MILLANG & CO.,
WHOLESALE FLORISTS,
501 Sixth Avenue,
CORNER 30TH ST., **NEW YORK.**
Consignments Solicited.

Our Seed Trade.

AMERICAN SEED TRADE ASSOCIATION.

T. W. WOOD, Pres.; ALEX. RODGERS and J. B. Rice, Vice-Presidents; A. L. DON, 114 Chambers Street, New York, Sec'y and Treas.

CROP REPORTS from California continue favorable.

PEA GROWERS in Canada report present outlook favorable.

SCOTCH GROWERS report probable short crop of pansy seed.

THE *Brooklyn Eagle* for June 21 published an excellent portrait of Mr. C. L. Allen.

VISITING NEW YORK: J. B. Kidd, San Francisco, and R. Moffitz, New Bedford, Mass.

THE Boston seed stores now close on Saturdays at one o'clock; other days at five o'clock.

THE Chas. P. Braslan Co. has applied for articles of incorporation at Chicago and expect soon to commence business as jobbers and growers of garden seeds.

VENTURA COUNTY, California, reports the hottest weather for many years. Sweet peas have been injured. [This is not a leading section for sweet peas.—ED.]

BOSTON.—Mr. B. K. Bliss, the veteran seedsman, was in town this week visiting his many seedsman friends; he is passing the summer at his farm in East Bridgewater, Mass.

BOSTON.—The firm of R. and J. Farquhar & Co. has dissolved and will be succeeded by Robert Farquhar, who has purchased the interest of his brothers in the concern, which will henceforth be known as Robert Farquhar & Co.

To Sell Seed Contracts.

An order was filed in the office of the clerk of the district court to-day, signed by Judge Jamison, granting Elbridge C. Cooke, assignee of Northrup, Braslan, Goodwin Co., the insolvent seedsmen, to sell a large number of contracts which were held by the insolvent with different farmers for the growing of about \$50,000 of seeds for the sum of \$1,000. It would have cost a large amount to care for the crops and complete the contracts which the sale relieves the assignee of, besides protecting the firm's interests.—*Minneapolis Journal*, June 24.

Rochester, N. Y.

The supply of good roses and carnations is not sufficient to satisfy the demand; even the lower grades are disposed of at fair prices, though the buyers are not at all pleased with this class of goods, and would rather use outdoor stuff in place of them if no explicit order is given to the contrary. Outdoor grown sweet peas of all colors are in; the hardy roses are getting scarcer every day, but *Lilium candidum* and *L. excelsum* are plenty, and along with other hardy stuff form the bulk of the stock now offered. Trade has been very satisfactory all through June to the majority of retailers, but is now less active, and it looks as if the annual summer quietness would set in at once. The weather is rather dry, still the season has been more favorable to the growth of outdoor stock than last year. Carnations, violets, etc., are looking better and stronger than this time last season; we had an occasional little

sprinkling, not a regular good rain, but these little showers seem to help things along wonderfully, and though we may complain of the dry weather, in reality there is none of the stock suffering.

Mr. J. Rebstock of Buffalo, accompanied by his young bride, passed through town this week on his wedding trip, but was too bashful to make any calls on his friends, who, however, tender their congratulations.

Another visitor was Mr. T. Meehan of Philadelphia, who came here principally for the purpose of looking over the many new improvements in and about our parks.

J. B. K.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads not admitted under this head.

SITUATION WANTED—By good rose grower and florist. Address O. M., care American Florist.

SITUATION WANTED—Steady, in private place, by German, 32, single; 12 years' experience. Best references. Address R. KAHL, care Vaughan's Seed Store, Box 688, Chicago.

SITUATION WANTED—First-class German florist, single, 30, long experience, desires position in Chicago; private place preferred. Chicago reference. Address CHAS. VORBECK, 150 Herndon St., Chicago.

SITUATION WANTED—As foreman. A life experience in growing roses, carnations, violets, palms, ferns, mums, and general greenhouse stock, forcing of bulbs, shrubs, etc. Refs. given to responsible parties. GROWER, 129 N. Clark St., Chicago.

SITUATION WANTED—By an experienced florist well known in the trade, to take charge of commercial place—wholesale or retail. Thoroughly experienced in roses, carnations and mums. Age 30, single. Address G. E. B., care Chas. W. Reimers, 329 Fourth Ave., Louisville, Ky.

SITUATION WANTED—By single man, gardener and florist, competent and reliable, for large or small place, private or commercial. Correspondence solicited. This is an exceptional opportunity to secure a good man who will render faithful and valuable service. Willing to go to any part of the country. References O. K. Address L. N., care Am. Florist.

WANTED—A competent man to take charge of greenhouse; or will rent to responsible party. For particulars address MRS. I. N. PARTRIDGE, Spencerville, Ill.

WANTED—An all round florist; experience at cut flower work; good salesman; willing to work; single; good habits. Apply with references. GOLD, care American Florist, Chicago.

WANTED—TO RENT OR LEASE—Greenhouses in good condition, wholesale or retail trade. Give particulars and lowest figures. Address NORTH, 2025 W. Broad St., Columbus, O.

WANTED—Good florist and gardener to take charge of Scotch gentleman's place. Grounds 3½ acres, garden 1 acre, greenhouse 30x20 feet. All help needed given. Place is very quiet, and only suited to a settled man. Scotchman or Englishman preferred, with good recommendations. Living cheap; climate splendid. A good house, firewood and \$40.00 monthly. Address B. J. FISHER, Ashboro, Randolph Co., N. C.

FOR SALE—An 8 section Carnody hot water boiler in good condition. Address W. H. DRUSE & Co., Beardstown, Ill.

FOR SALE—No. 8 Forman steam boiler, in good condition; will heat 800 square ft. of glass. Price \$250. W. M. LOTT, Warren, Pa.

FOR SALE—At half price, three greenhouses, stock, boiler, pipes and everything belonging to it. If applied for soon. W. S. P., care American Florist.

FOR SALE—Four greenhouse; two 11x75, one 19x75 one 22x75, and two lots 100 feet front, 129 feet deep, and a good stable. The houses are heated with hot water. Address R. I., care Am. Florist.

FOR SALE CHEAP—Extra good second-hand 3-inch boiler tubes, 12 feet long, with collars for packing. They take the place of cast iron pipe for hot water at less than half the price. W. H. SALTER, Rochester, N. Y.

FOR SALE—The Anthony Greenhouses, long established, popular, well known greenhouse and cut flower business, well stocked. A bargain. Terms reasonable. Address DEAMUD, care Vaughan's Seed Store, 84 Randolph St., Chicago.

FOR SALE—A bargain; two greenhouses 100 ft. long, in Macomb, Ill., heated with hot water; hotbed sash, tools, wagons, two horses, a large stock of plants, a good established trade, in a good city; 3 years' lease on the ground free. Four acres of growing vegetables. All for \$1,500. I. L. PILLSBURY, Galesburg, Ill.

FOR SALE CHEAP—Whole or half interest in a first-class florist establishment, an area of 40,000 sq. ft. of land, with one new greenhouse and hotbeds, also dwelling with barn, in a city of 8,000 to 10,000 inhabitants. Land lies between two streets. Answers received in German, Norwegian or English. For further particulars address CHR. MARSEN, 1236 Sixth St., Beloit, Wis.

FOR SALE—Near New York City, a large greenhouse establishment, in perfect order, planted out for coming season. Full line of tools, pots, etc., horses, carts, wagons, harness, and in fact everything necessary for the business. Dwelling houses and all out-buildings required; abundance of water, under natural pressure; perfect drainage. As many acres of ground as required. Fine scenery and roads; schools, stores, etc. This place is worth \$50,000; would sell for \$25,000, or \$30,000, according to amount of land taken. Easily subdivided. Terms to suit purchaser. For further particulars, address J. R. T. 267 West 71st St., New York City.

CONSTABLE'S SALE.

By virtue of a levy under executions, I shall sell, at Public Auction, at Elgin, Ill., the entire greenhouse stock of Bach & Koebke, on Friday, July 10th, 1896. For further information inquire of A. M. BURNIDGE, Elgin, Ill.

FOR SALE—Second-Hand Boilers.

- 2-60 H. P. TUBULAR BOILERS.
- 3-40 H. P. TUBULAR BOILERS.
- 1-25 H. P. TUBULAR BOILER.
- 2-25 H. P. LOCOMOTIVE BOILERS.

All the above are in first-class order, well adapted for greenhouse heating, either steam or hot water. Will sell cheap.

CLEVELAND STEAM BOILER WORKS, Cleveland, O.

AZALEAS, the finest commercial varieties.
PALMS, large, healthy stock, well grown.
ARAUCARIAS, from cuttings only.
BAY TREES, perfect shape, in all sizes.

SANDER, Bruges, Belgium.

Agent: A. DIMMOCK, 106 & 108 Liberty Street, NEW YORK. SEND FOR SPECIAL OFFER.

CHRYSANTHEMUMS.

All the choicest novelties and the cream of the standard varieties. A limited quantity of fine, healthy plants at reasonable prices. Let us know your wants.

Carnation plants all sold.

H. WEBER & SONS, Oakland, Md.
Mention American Florist.

Siebrecht & Wadley's PALMS, FERNS AND ORCHIDS.

We give you good value for your money.

Rose Hill Nurseries, New Rochelle, N. Y.

Pansies Worth Raising.

Everybody knows them. Everybody likes them. And they are sold by millions.

NEW SEED READY NOW—½ ounce \$1.00; ¼ ounce \$2.50; 1 pound \$50.00.

CASH WITH ORDER.

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Vegetable Plants.

CABBAGE—Flat Dutch and Drumhead, \$1.50 per 1000; \$5.00 per 5000.

CELERY—Golden Self Blanching, Pascal, White Plume, Pink Plume, Golden Heart, \$1.50 per 1000; \$5.00 per 5000.

CELERY—Transplanted, \$3.50 per 1000.

CASH PLEASE.

JNO. E. DeWALT, Box 82, Carlisle, Pa

FORCING ROSES. Good plants.

BRIDES, BRIDESMAIDS and PERLES, @ 2½ cts.

AMERICAN BEAUTIES, @ 5 cents

I. L. PILLSBURY, Galesburg, Ill.

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FOR OUR

Convention Number

TO BE ISSUED

August 15.

BULBS

For Fall Delivery.

Give us your wants, and will quote you price that will give you a living profit.

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—NEW YORK.

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ZIRNGIEBEL'S GIANT MARKET AND GIANT FANCY PANSIES

are the Leading Strains up to date. Extra Large Size and Superb Colors. Liberal trade packets of either strain at ONE DOLLAR EACH. *Separate colors if wanted in Blue, Black, White and Yellow.

DENYS ZIRNGIEBEL,
NEEDHAM, MASS.
Mention American Florist.

EXTRA PANSY SEED.

MAMMOTH SUNBEAM STRAIN.

A grand collection of plant flowering varieties, very large, of perfect form and choice colors; carefully selected and exceedingly fine. My customers write that this is the finest strain of pansies they can get; requires no better evidence of superiority. Every florist should sow of this improved strain. Trade pkt., 50 seeds, 25 cts.; 3 pkts. 60 cts.; 6 pkts. \$1.00. A pkt. of 30 seeds of the new giant yellow pansy will be added to every \$1.00 order.

JOHN F. RUPP, Shiremanstown, Pa.

C. H. JOOSTEN, Importer,
193 Greenwich Street, NEW YORK.
SPECIALTIES.

Bulbs, Azalea Indica, Palms, Roses,
and all kinds of Nursery and
Fruit Tree Stocks.

Catalogues on application.

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Garden and Farm

Vegetable and Flower Seeds. All the newest and best varieties—quality unsurpassed. Illustrated Catalogue FREE.

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Begonias in variety, 2 1/2-inch pot plants.....	\$2.50
Chrysanthemums, 2 1/2-inch pot plants.....	2.50
R. Cuttings, standard vars.....	1.00
Marguerite Daisy, R. Cuttings.....	1.00
2 1/2-inch plants.....	2.50
Glechoma Hederacea, R. Cuttings.....	.90
Verbena, best strain.....	.75
Vinca Variegata, R. Cuttings.....	1.00
Cuphea, Pilea, German Ivy, etc.....	1.00

If to be sent by mail add 10c per 100. Cash with order.
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PREPARE ADVS.
NOW
FOR OUR
CONVENTION
NUMBER
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AUGUST 15.

VAN ZANTEN BROTHERS, Hillegom, Holland.

Extra quality of HIGH GRADE FORCING BULBS AT LOW PRICES. We now book orders for **Azalea Indica, Palms, etc.** The largest collection of sundry bulbs and plants.

APPLY FOR WHOLESALE CATALOGUE.

PRIMULA SEED.

This Year's Crop. Now Ready.

Our superb mixture contains only the choicest fringed strains, and will give the greatest satisfaction. Trade pkt. 50c.

Cineraria Seed.

Our strains are unsurpassed for richness of color as well as for size and perfection of form. Trade pkt. 50c.

HERRMANN'S SEED STORE,

413 E. 34TH STREET,

Near Long Island Ferry, NEW YORK.

Agent for LYSOL, the ideal insecticide.

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WE ARE HEADQUARTERS ON BULBS FOR FORCING, FLOWER SEEDS FOR FLORISTS ENGLISH MUSHROOM SPAWN.

Special prices on application.

JOHN GARDINER & CO., Seedsmen,
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LILIUM HARRISII

NOW READY.

5-7 inch circum., per 100 \$2.00; per 1000 \$17 50

7-9 inch circum., per 100 \$4.00; per 1000 \$38 00

Best stock grown in Bermuda.

Prices on all other Bulbs on application.

HULSEBOSCH BROS., Englewood, N. J.

NO BLUFF!

Romans and other French Bulbs very short crop. Don't delay booking your order for these and other forcing stock Send to-day for my price list.

G. C. WATSON,

SEEDSMAN AND BULB SPECIALIST,

43 North 10th St., PHILADELPHIA.

Pansy Seed.

The Cunningham strain of finest mixed, equal to any strain in America.

1/2 oz. \$2.00; 1 oz. \$4.00; 3 ozs. \$11.00.

CASH WITH ORDER.

JOS. H. CUNNINGHAM, Delaware, O.

Mention American Florist.

FOR SALE.

A nice lot of Geo. E. Bennett's Mignonette Seed, at \$1.50 per hundred seeds.

CASH WITH ALL ORDERS.

GEO. E. BENNETT,

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LIQUID PUTTY.

MADE JUST RIGHT.

Putty Bulbs, Glazing Points and Glass. Leaf Mould. Write for quotations.

WISCONSIN FLOWER EXCHANGE,

Box 87, MILWAUKEE, WIS.

L. C. BOBBINK, Rutherford, N. J.

Branch of The Horticultural Co., Boskoop, Holland.

CLEMATIS, RHODODENDRONS, AZALEAS, MAGNOLIAS, BULBS, Etc., Etc.

Ask for prices.

PALM SEEDS

On hand in splendid condition.

	Per 100	Per 1000	Per 5000
Areca lutescens	\$1 50	\$10 00	\$47 50
Areca rubra	1 50	10 00	47 50
Geonoma gracilis	1 75	12 00	55 00
Geonoma Schottiana	1 75	12 50	60 00

Non germinating seeds will be replaced.

Our Palm Growers' Guide free on application.

SCHWAKE SEED CO. (Inc.)

404 East 34th St., NEW YORK.

MUMS, ROSES, VIOLETS, SMILAX, DRACAENAS, CUT SMILAX.

	Per 100
2 1/2-inch Mums Merry Monarch, Marquis de Montmort, Nemesis, Philadelphia, John H. Troy, Parker Jr. and Robinson.....	\$3.50
Marion Henderson, Eugene Dilledouze, Bonafant, Helen Bloodgood, Yellow Queen, D. T. Murdoch, H. L. Sunderbruch, Ivory, Jerome Jones, Pres Smith, Bergmann.....	3.00
Roses, La France, 3-inch.....	4.00
Brides, 3-inch.....	5.00
Brides and Bridesmaids, 2 1/2-inch.....	3.00
California Violets, 3-inch.....	7.00
2 1/2-inch.....	5.00
2 1/2-inch Smilax.....	3.00
1500 fine Cut Smilax.....	\$2.00 per dozen; 18.00
Dracaenas, 4-inch, Australls and Indivisa.....	15.00

POEHLMANN BROS.,

MORTON GROVE, Cook Co., ILL.

Our 1895 PALM COLLECTIONS are better than ever, and consist of 17 3 to 4-inch for \$3, or 34 for \$5; 10 4 and 5-inch Palms for \$3.50, or 20 for \$6.00; 6 6-inch Palms for \$5.00, all the best varieties.

ROSES—	Per 100
Monthly and Tea, best kinds, 2-inch . . .	\$ 2 50
" " " 3-inch . . .	5 00
" " " our selection . . .	4 50
Hybrid Perpetual, assorted kinds, 2-in . .	2 10
Crimson Rambler	10 00

FERNS—	
Adiantum Cuneatum, 3 and 4-inch, #6 & 10 00	
" Farleyense, 3-inch	25 00
" 4-inch	50 00
" Capillus Veneris, 3-inch . . .	5 00
Sword, 3-inch	5 00

LABELS, BOXES, MOSS, ETC.

Send for catalogue and samples.

WILLIAMS & SONS CO.,
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SPECIAL OFFER.
AZALEAS
BEGONIAS
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and 36 Catharine Street,
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PALMS, ARAUCARIAS, BAYS, &c

CAMPHOR TREES.

(Laurus Camphorus.)

For the Southern States there is no Evergreen Ornamental Tree to equal it in beauty of foliage or outline of shape.

Young plants from 3 to 4 inches high, out of 1 1/2-in. pots, at \$20.00 per thousand, by

R. MAITRE,

7444 St. Charles Ave., NEW ORLEANS.

MRS. PIERPONT MORGAN, Extra Fine Plants,
3 inch pots \$12.00 per 100
2 1/2-inch pots 8.00 per 100

PAPA GONTIER, Strong Plants,
3 inch pots 5.00 per 100

THE FLORAL EXCHANGE, 614 Chestnut St., Phila.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Western Springs, Ill.

It is as yet too early to say anything of cannas outside, but nearly all the novelties of the season either are or have been in bloom here at J. C. Vaughan's. There are some good things among them; others are less interesting. Burbank (not yet disseminated) and Italia are the two stars. Of Crozy's new set Souvenir de Mme. Crozy and Chas. Paul were in flower; the former is one of the red and yellow Queen Charlotte type, of which we now have a good many; the latter is much like J. D. Cabos. The French growers seem to be sending out too many too-much-alike cannas now.

Among new roses, Lord Penzance's new hybrid sweet briars made a very favorable impression; they throw up tremendous canes, and their abundant foliage scents the whole house with the real eglantine odor. Crimson Rambler was very vigorous; Climbing Meteor seemed strong and free. In bedding plants there is a new variegated nasturtium, to be sent out next year; its coloring suggests a mammoth glechoma, flower yellow. The richly colored nasturtium Cardinal Prince has proved a great favorite in the mailing trade, also the double forms. A new alyssa, to be sent out next year, is A. Miltonensis; the foliage is bright green, the serrated edges tipped with pale yellow or creamy white. It will form a pleasing contrast with the dark leaved sorts. Swainsona, which is a favorite indoors, is being tried bedded out. One of the crotalarias, which is described as resembling a yellow swainsona, is another novelty now being tested. Cupid sweet pea looked very disappointing; its appearance did not come up to our expectations.

A house filled with Adiantum Farleyense in 4-inch pots was a fine sight; every plant was perfect, and a mass of young growth. There was an interesting lot of Cycas revoluta, showing some very fine crowns.

Chrysanthemums were being benched, ready for specimen flowers, and there was an interesting lot of standards and bush plants. Mr. Wilson is trying somegrafted standards, using a strong growing kind for the stock, such as Pres. Smith for the stock and Mrs. Robinson for the head. The result seems likely to be very satisfactory.

New Yellow Marguerite.

Strong 2½-inch, 6 for \$1.00.

The best Daisy for cut flowers. A pleasing shade of yellow; long stems; blooms the year around. Sample blooms mailed on receipt of 10 cts.

3-inch BRIDES, BRIDESMAIDS, METEORS, 5 cts. Nice, clean stock.

Also small 'MUM' plants.

ASPARAGUS PLUMOSUS, strings 8 to 12 feet long, 75 cts. per string.

CASH WITH ORDER.

F. BURKI, Bellevue, Pa.

THE DIRECTORY

For 1896.

IS NOW READY.

Price \$2.00.

AMERICAN FLORIST CO.

Herr's Pansies

My customers tell me are the **BEST STRAIN** grown either in this country or Europe.

Why bother with seed when you can buy plants of this strain any time after Sept. 1st.

\$5.00 per thousand; 75 cts. per hundred.

Write for circular. It will pay you to get acquainted with my Pansies and Rooted Cuttings.

L. B. 496.

ALBERT M. HERR, LANCASTER, PA.

Planting Stock

IN
**ROSES,
FERNs,
SMILAX.
German Pansy Seed.**

PRICE LIST ON APPLICATION.

**DAN'L B. LONG, Jobbing
Florist,
BUFFALO, N. Y.**

Wm. Simpson.

CUT OCT. 15TH.

The Earliest Large **CHRYSANTHEMUM**.
Price to the Trade, \$17.50 per 100;
\$100.00 per 1000.

JOSEPH HEACOCK, Wyncote, Pa.

**E. G. HILL & CO.,
Wholesale Florists
RICHMOND, INDIANA.**

100,000 Strong Field-Grown ROSES
(Budded and own roots) for Fall delivery.

Try our new **BIOTA AUREA NANA**.

Thousands of **Olea Fragrans, Azaleas, Camellias and Magnolia Fuscata**.

Prices on application.

P. J. BERCKMANS, Augusta, Ga.

**CARNATIONS
ROOTED CUTTINGS.**

KOHINOOR takes the lead.

Other Novelties of the Standard sorts at standard prices. All healthy and strong.

**C. J. PENNOCK,
The Pines. KENNETT SQUARE, Chesler Co., Pa.**
Mention American Florist

THE COTTAGE GARDENS,

C. W. WARD, Mgr. QUEENS, L. I., N. Y.

WHOLESALE SPECIALTIES:

**Carnations, Chrysanthemums,
Cannas, Geraniums.**

DO YOU WANT CARNATIONS?

If so, why not GROW the BEST?

50,000 ROOTED CUTTINGS, including
Daybreak, Wm. Scott, Goldfinch, Lizzie
Gilbert, Emily Pierson, Lizzie McGowan,
Tidal Wave, S. Spray, Hinz's White, &c.
Can do you justice to quality and prices. Write me
before you buy. Address **CHAS. CHADWICK,**
Lock Box 11, Grand Rapids, Mich.

CARNATIONS A SPECIALTY.

Rooted Cuttings. Young Plants. Field Grown
Plants in season. Write for prices.

GEO. HANCOCK & SON, Grand Haven, Mich.

EXHIBITIONS

MAY INTEREST YOU.

If so, take our Mid Season list that appeared in last week's AMERICAN FLORIST and add these for variety sake, and you need not fear the "other fellow" if you do them well.

WHITE.	Per 100
MDLLE. THERESE REY.	\$3 00
MISS FLORENCE PULLMAN	3 00
THE QUEEN	3 00
YELLOW.	
A. H. FEWKES	3 00
MRS. CRAIG LIPPINCOTT	4 00
PHILADELPHIA	8 00
PINK.	
INTER OCEAN	3 00
V. H. HALLOCK	3 00
VIVIAND MOREL	3 00
SUNDRY COLORS.	
AUTUMN GLOW	3 00
CHAS. DAVIS	3 00
EDWARD HATCH	3 00
MRS. GEO. WEST	3 00
NYANZA	5 00
SILVER CLOUD	3 00

**NATHAN SMITH & SON,
Adrian, Mich.**



**TOKIO
NURSERIES,
HEADQUARTERS
FOR.....**

**Japan Lilies,
Plants, Seeds
ETC.**

Write for Catalogue.
**TOKIO NURSERIES
KOMAGOME,
TOKIO, JAPAN.**
Cable Address:
"NURSERIES, TOKIO."

NOVELTIES FOR THE TRADE.

New Asparagus Sprenger 30c. New Spiraea Anthony Waterer 25c. New Climbing Meteor Rose 30c. New Golden Rambler, Yellow Souper, New Crimson Rambler \$5 per 100. New Justicia, New Double Rudbeckia, New Cannas, Carex Japonica, Bougainvillea, Gladioli, Dbl. New Life Geranium, Geranium Agnes Kelway, best pink. Seed for Catalogue of Novelties and Trade Bulbs at low prices. **A. BLANC & CO.,**
Japanese Jardinieres at very low prices. List free. Philadelphia, Pa.

SPECIALTIES

IN BEST VARIETIES.

ROSES, from 3-inch pots.
CARNATIONS, for fall delivery.
**CHRYSANTHEMUMS.
SMILAX.**

Prices low. Send for list. **VIOLETS.**

WOOD BROTHERS, FISHKILL, N. Y.

We devote our whole attention to

DAHLIAS

and not only have the LARGEST and BEST collection in America, but guarantee our stock true to name. We are now filling orders for trial grounds. Every SEEDSMAN and FLORIST interested in DAHLIAS should send for our new descriptive Trade List.

W. P. PEACOCK, Atco, N. J.

CARNATIONS.

**F. DORNER & SONS CO.,
LA FAYETTE, IND.**

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

NEW ROSE

"Mrs. PIERPONT MORGAN"

Listen for a moment to what a voice from far off Springfield, Illinois, has to say about our young stock of this rose:

May 4, 1896.
"EDWIN LONSDALE, Chestnut Hill, (Station H), Philadelphia, Pa.

"DEAR SIR:—Box of 'Morgan' rose plants arrived Saturday in good shape. Fine Plants. I would like to know how you produce plants of such size in a two (2) inch pot?"

All I can say is that it is all owing to the natural vigor of the variety, and perhaps to some extent to the natural rose growing qualities of our soil.

We have a few more left of the same size. Order early or you may get left, for I do not know of a more profitable variety to grow for cut flowers than MRS. PIERPONT MORGAN. Don't forget our address:

EDWIN LONSDALE, Station H,
Chestnut Hill, PHILADELPHIA, PA.

Rogers Park Floral Co.

GOOD FIRST CLASS STOCK.

	In 2½-inch pots	per 100	per 1000
Am. Beauties	5	00	\$40 00
C. Testout	4	00	35 00
Kaiserin Victoria	4	00	35 00
La France	4	00	35 00
Belle Siebrecht	4	00	35 00
Bridesmaids	3	00	25 00
Brides	3	00	25 00
Meteors	3	00	25 00
Meteors, 4 inch pots	5	00	40 00

Orders for less than 100 not accepted. Ready for shipment now.

Send Orders to 41 Wabash Ave., Chicago.

Young Rose Plants.

The following stock was grown for our own use and is guaranteed first-class in every respect:

1000 MRS. J. P. MORGAN, 2½-in. pots,	4c
400 BELLE SIEBRECHT, 2½-in. pots,	4c
1000 BRIDES, 2½-inch pots,	3c
1000 BRIDESMAIDS, 2½-inch pots,	3c

Also a few BRIDES and BRIDESMAIDS, in 3-inch pots, at low figures.

BASSETT & WASHBURN,
HINSDALE, ILL.

CHOICE ROSE PLANTS,

	In 3 and 3½-inch pots.	Per 1000
METEOR, PERLE, BRIDE and BRIDESMAID		\$40.00
AMERICAN BEAUTY, 3½-inch pots		50 00
BELLE SIEBRECHT, 3 inch pots,		\$6.00 per 100.

MONEY WITH ORDER.

READ THIS UNSOLICITED TESTIMONIAL.

BURLINGAME, CAL., May 30, '96.
BRANT & NOE, GENTLEMEN:—Received the 6,400 rose plants in first-class condition. Want 800 more. If you have them please write at once and I will send money. Yours respectfully,
E. W. McCLELLAN.

Send orders to
BRANT & NOE, Forest Glen, Ill.

A FINE LOT OF

Meteors,
and La France,

Now ready, out of 3 or 4-inch pots. Write for sample and prices to

GEO. A. KUHL, Pekin, Ill.

ROSES.

FRANK L. MOORE,
CHATHAM, NEW JERSEY,

ROSES FOR WINTER FORCING

ALL FIRST-CLASS, WELL CROWN STOCK.

2½-in. pots per 100.	STOCK:	3½-in. pots. Per 100.
\$4.00	PERLE	\$10.00
4.00	BRIDE	10.00
4.00	BRIDESMAID	10.00
4.00	METEOR	10.00
4.00	LA FRANCE	10.00
4.00	GONTIER	10.00
4.00	DUCHESS OF ALBANY	10.00
5.00	SUNSET	11.00
6.00	KAISERIN	12.00
6.00	TESTOUT	12.00
6.00	SOUV. DE WOOTTON	12.00
8.00	AMERICAN BEAUTY	14.00
8.00	BELLE SIEBRECHT	14.00
8.00	MRS. PIERPONT MORGAN	14.00
4.00	CLOTHILDE & PINK SOUPERT	8.00

GREENHOUSES, WESTERN SPRINGS, ILL. VAUGHAN'S SEED STORE, 84 & 86 RANDOLPH STREET, CHICAGO.

Roses, Roses and Roses.

All the best NEW and STANDARD varieties for winter forcing now ready in A1 stock, and of

MRS. PIERPONT MORGAN,

the most profitable known variety for forcing, and of the easiest possible culture I have a grand lot now ready. Write for special prices on this variety for large lots to

JOHN N. MAY, Summit, New Jersey.

REINBERG BROS.,

KAISERIN, 2-inch pots,	-	-	-	\$2.00 per 100.
METEORS, 3-inch pots,	-	-	-	4.00 per 100.
PERLES, 3-inch pots,	-	-	-	5.00 per 100.

Send orders to 51 Wabash Ave., CHICAGO, ILL.

30,000 FIRST QUALITY FORCING ROSES. READY FOR IMMEDIATE PLANTING.

Fully equal to those sent the last four years, first-class and perfectly healthy in every respect. Only selected growth from flowering shoots used in propagating.

WOOTTON,	LA FRANCE,	AMERICAN BEAUTY,	BELLE SIEBRECHT,
3-inch pots, \$8.00 per 100.	4-inch pots, \$12.00 per 100.		
METEOR,	KAISERIN A. V.,	SUNSET,	BON SILENE,
PERLE,	GONTIER,	MME. HOSTE,	NIPHETOS,
BRIDESMAID,	3-inch pots, \$7.00 per 100.	4-inch pots, \$10.00 per 100.	BRIDE,

J. L. DILLON, Bloomsburg, Pa.

When writing mention the American Florist.

ROSES

BEAUTIES, MERMETS, CUSINS, TESTOUTS, NIPHETOS, PERLES, BRIDES, BRIDESMAIDS, METEOR, HOSTE, LA FRANCE, WOOTTON, WATTEVILLE, AUG. VICTORIA. 2 3 and 4-inch pot plants. Cash with order. Owing to number booked, they will be executed in rotation to assure prompt delivery. Order early.

Address for quotations, VILLA LORRAINE ROSERIES, MADISON, NEW JERSEY.

AMERICAN BEAUTY,	METEOR, BRIDESMAID, BRIDE, TESTOUT, PERLE,
M. LOUISE VIOLETS, 2½, 3 and 4 inch.	SUNSET, LA FRANCE, KAISERIN, 3 and 4-inch pots.
ASPARAGUS PLUMOSUS, 3 and 4-inch.	CALIFORNIA VIOLETS, 2½, 3 and 4-inch.

A. S. MacBEAN, Lakewood, N. J.

ROSES. NOW READY.

First-Class Stock, 2½-inch pots.

	Per 100	Per 1000
METEORS	\$2 50	\$20 00
BRIDES	2 50	20 00
BRIDESMAIDS	2 50	20 00
500 fine WOOTTONS, 3½ in.	4 50	

A. G. PRINCE & CO.,
88 Wabash Ave., CHICAGO.
When writing mention American Florist.

ROSES.

BRIDES, BRIDESMAIDS, MERMETS, KAISERIN and TESTOUT, \$3.00 per 100; \$25.00 per 1000.
PERLES, \$3.50 per 100; \$30.00 per 1000.
LA FRANCE and BRIDES, 3-in. \$5 per 100; \$45 per 1000. 25 at 100, and 250 at 1000 rates.

R. F. TESSON,
West Forest Park, ST. LOUIS, MO.

Always mention the American Florist when writing to advertisers.

ROSES.

Good, strong 2½-inch stock.

	Per 100
MARY WASHINGTON	\$2 00
MRS. DEGRAW	2 00
GOLDEN GATE	2 50
MME. C. TESTOUT	3 00

CASH WITH ORDER.

NATIONAL PLANT CO., Dayton, O.

ROSES. FIRST-CLASS STOCK.

Meteors, Brides, Watteville and La France, 4-inch, \$6.00 per 100; 3-inch, \$4.00 per 100.

100 Smilax, 2½-in., bushy, fine, \$2 00.

CRABB & HUNTER, Grand Rapids, Mich.
Mention American Florist.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

Worcester, Mass.

The annual rose show of the Worcester County Horticultural Society was held in the society's hall Thursday, June 18, and taking all things in consideration was a fairly successful exhibition. Everything seemed to be against the roses this season; in the first place the very hard frosts that we had early in the autumn, before the wood was thoroughly ripened played the very mischief with them, one grower reported a loss of nearly seven hundred plants, then again early in May when the plants were just sending out their tender shoots we had a severe drouth, accompanied by drying winds that shrivelled things like fire; and lastly an unusually hard battle with the inevitable rose bug which made it somewhat of a task to get a stand of blooms fit for the exhibition table. But in spite of all, we had some good blooms, the small number of exhibits being the only drawback. There was a magnificent showing of pæonies and a decided improvement was noticeable in this line.

G. M. Whitin had a very interesting display of dipladenias, and a fine exhibit of Spanish iris was staged by H. F. A. Lange. President O. B. Hadwen won first premium for pæonies and H. F. A. Lange captured first in the five classes of roses. W. J. Wood was elected judge of flowers to succeed A. H. Lange, who resigned the office last fall. Mr. Wood has been judging the shows since the beginning, but owing to hitch in calling a meeting of the trustees was not elected till June 11.

Business has been very good this last week, owing to the numerous graduations, and although flowers are coming in large quantities we have not a very big surplus as yet; the quality is good. We have had considerable rain lately and it has helped outside stuff immensely; the weather has been very warm. A. H. L.

Galt, Ont.

Spring sales were above the average: prices about the same as last year; weather all that could be desired.

John Wells has gone on a trip to old England. We all wish him a good time and safe return.

I am glad to inform the many friends of Adam Dunn that he is on the road to recovery after a severe attack of pleurisy. Being advanced in years his case gave his friends great anxiety. He had just erected a handsome new greenhouse and had everything in order for the bedding season when he was so suddenly taken sick.

J. W. Scott is still on the sick list.

A. Common has taken to himself a wife. MAC.

TWO REMARKABLE BERRIES.

STRAWBERRY-RASPBERRY,
LOGAN BERRY (*Raspberry-Blackberry*)

We are headquarters for them. Also Golden Mayberry and Sacaline, home-grown plants. Bottom prices for gilt edge stock.

THE LOVETT CO., Little Silver, N. J.

PREPARE ADVS. NOW
FOR OUR

CONVENTION NUMBER

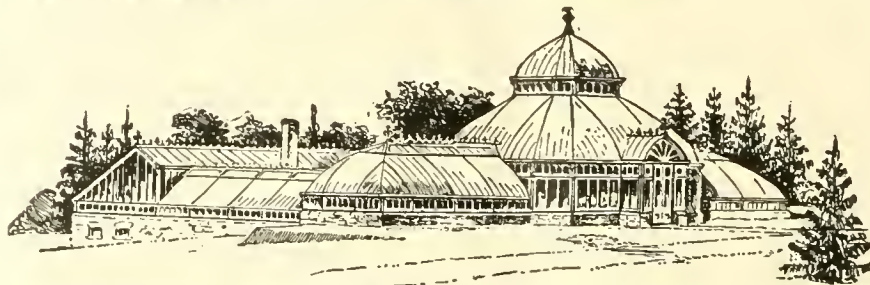
TO BE ISSUED

AUGUST 15.

LORD & BURNHAM CO., Horticultural Architects and Builders,

STEAM AND HOT WATER ENGINEERS.

Plans and estimates furnished on application.



Largest builders of Greenhouse Structures. Six highest Awards at World's Fair.

SEND FOUR CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.

LORD & BURNHAM CO., Architectural Office, 160 Fifth Ave., New York City.
COR. TWENTY-FIRST ST.,
FACTORY: IRVINGTON-ON-HUDSON, N. Y.
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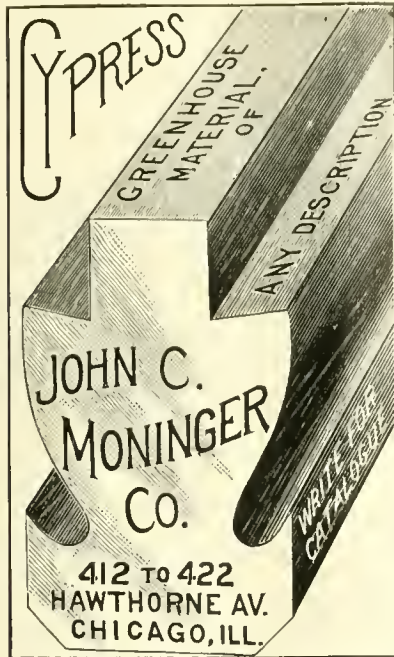
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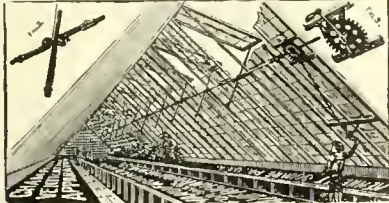
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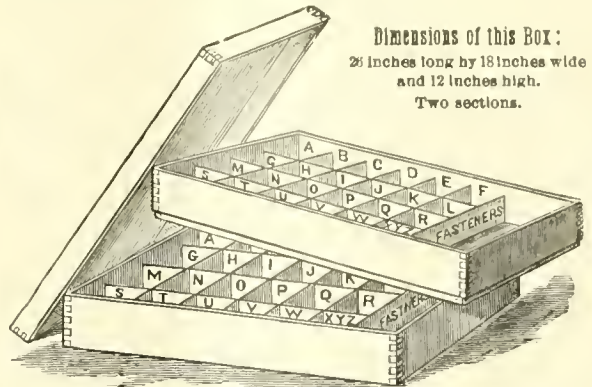
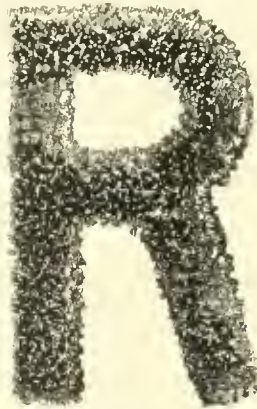
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No more brilliant gathering has ever assembled at the capital than that which filled the New York Avenue Presbyterian Church June 2 to witness the marriage of Miss Julia Stevenson, second daughter of the Vice-President and the Rev. Martin Hardin, son of General and Mrs. R. W. Hardin, of Kentucky. The fine church was elaborately decorated. About the altar was a banking of fine palms artistically arranged, with quantities of La France roses forming a background for the bridal party. Over the tall arches were garlands of asparagus, held on either side by long bows of white satin ribbon. In the rear of the pulpit the banking of the palms was tall and very effective. The novel idea of marking the reserved pews with flowers was very effective in this instance. The pews in the broad central aisle were marked by graceful clusters of La France roses held by white satin ribbon streamers.

Immediately after the marriage service a reception followed at Hotel La Normandie. The entire lower floor of the hotel was elaborately decorated with foliage plants and La France roses. The flowers were chiefly La France roses. The long hall or corridors were lined on either side with tall palms set in basket jardinières, forming a complete arch through which the bridal party marched. The main parlors were ornamented with foliage plants. The mirrors and chandeliers were festooned with asparagus. The eight mantels were banked with Adiantum Farleyense studded with La France roses. The dining rooms were decorated similar to the parlors. The table was decorated with Farleyense, the center piece was of smilax and asparagus representing a large incandescent light, studded with miniature incandescent lights; radiating from the center were sprays of asparagus, among which were myriads of tiny electric lights. Palms were arranged in all the nooks.

The private dining room, where the bride, groom, bridesmaids and ushers dined, was a bower of beauty. The table was decorated with a center mound of Farleyense studded with La France roses. The mantels were banked with cuneatum studded with La France. The windows where the bridal party received congratulations were curtained asparagus and white satin ribbon, palms forming an effective back ground for the receiving party. These decorations were the work of the Gude Bros. REYNOLDS.

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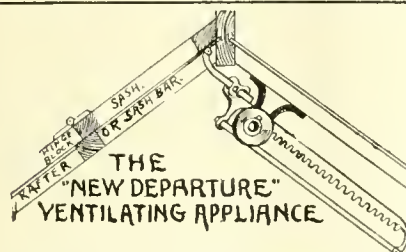
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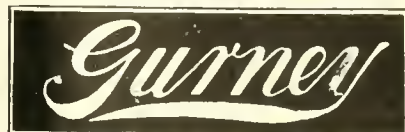
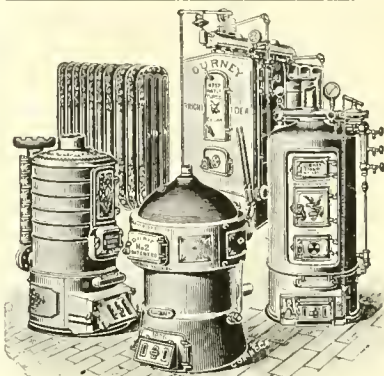


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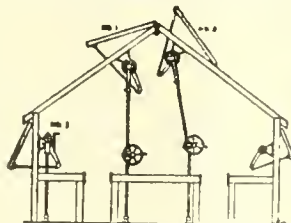
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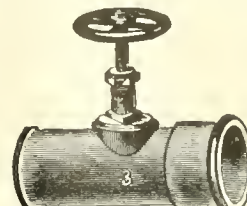
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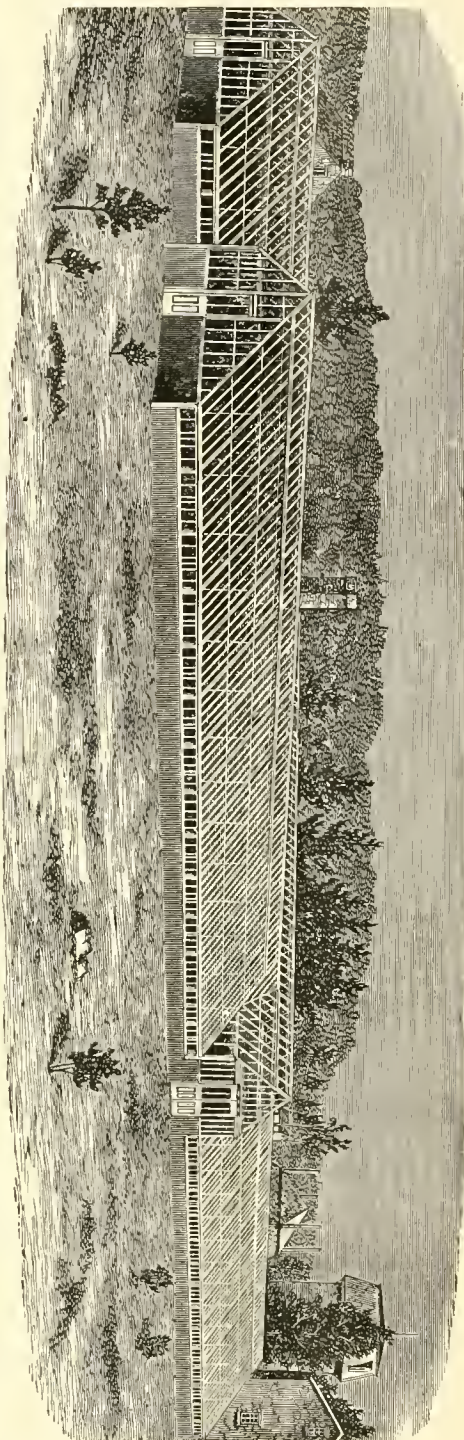
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SALT LAKE CITY, UTAH.—H. F. F. Thorup of the South Eastern Nursery and Floral establishment intends to add one house 17x60 this summer.

ALTOONA, PA.—The floods due to recent rains did some little damage to the city greenhouses of Myers Bros., but their principal plant at Eldorado was not touched. They report the spring bedding plant trade as excellent.

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CYCAS LEAVES
EQUAL
TO FRESH CUT
Prices per Pair
70¢ 80¢ 90¢ 100¢ 120¢ 150¢
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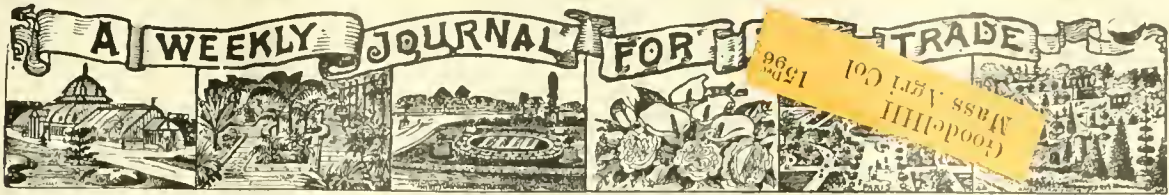
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NEW YORK: 94 Center Street.
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THE AMERICAN FLORIST



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Vol. XI.

CHICAGO AND NEW YORK, JULY 11, 1896.

No. 423

THE AMERICAN FLORIST

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SOCIETY OF AMERICAN FLORISTS.

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Cleveland, O., vice-president; W. J. STEWART, Boston,
secretary; H. B. BEATTY, Oil City, Pa., treasurer.
The twelfth annual meeting will be held at Cleve-
land, O., August, 1896.

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PROF. WM. TRELEASE is in the Bahama
Islands.

THE society of Kentucky Florists will
hold their annual chrysanthemum show
November 11 to 14. The advance pre-
mium list has been printed and copies
may be had on application to the secre-
tary, S. J. Thompson, Louisville, Ky.

THE premium list for the chrysanthem-
um show of the Rhode Island Hort.
Society, to be held in Providence Novem-
ber 10 to 12, has been issued. Copies
may be had on application to the secre-
tary, C. W. Smith, 61 Westminster street,
Providence, R. I.



Chrysanthemum Notes.

The plants in the benches in which no
manure was placed in the bottom, should
now be watered regularly with liquid
manure, and the strength of the manure
water may be increased quite rapidly, but
the grower must be ever on the watch
for the first signs of overfeeding. This
can be very easily detected; the foliage
will begin to assume a sickly look, and
the color will be much lighter than it
ought. If this happens stop the liquid
manuring at once for a few days and
sprinkle a little charcoal and lime upon
the soil, and after the plants have regained
their color begin watering again with
weaker manure. Soot, if you can obtain
that which comes from soft coal, is very
efficacious in bringing back the dark
glossy green foliage. This can be used
either in liquid form by hanging some in a
bag in a barrel of water or sifted upon
the soil. If used in a liquid form dilute
with a great deal of water, for the soot of
some coal is very strong in manurial
qualities and burns the plants very
quickly.

Some of the pests of the chrysanthem-
um are making their appearance. The
small grasshoppers are beginning to hop
and fly about, and soon find their way
into the greenhouse, hunting for a nice
juicy meal off the soft end of a rapidly
growing chrysanthemum shoot. They
should be carefully hunted for, and when
one is seen don't give up the chase if you
don't catch him the first time until you
have him fast between your thumb and
fingers and have dispatched him. The
little white hairy caterpillar is on the
ground and is not often seen until he has
done a great amount of damage. Their
work is begun when they are very small,
and the first thing noticed will be one or
more leaves turning brown and looking
like skeletonized leaves. Turn the leaf
over and you will often find two or three
of these little fellows hard at work on the
back of the leaf or on leaves adjacent to it.
The aphid should be kept down always,
and nothing is better than constant fumi-
gation to get rid of the black one. I once
inquired of a friend how I could get rid
of these little pests, saying that I had
fumigated regularly once a week. His
answer was that where the black aphid
had strong foothold, he began a regular
crusade against them, fumigating every

night until they were killed. He said,
"The first night makes them sick and the
next night makes them sicker, but the
third night, they generally give up the
ghost."

The small pot plants can now be turned
into empty benches and grown on there
until about September if desired. Many
growers pursue this plan, for it is much
easier than keeping them in pots through-
out the summer plunged in hotbeds; they
do not need nearly as much attention, for
they are not as apt to run dry, but our
experience has been that those grown in
pots make much the better plants. Those
grown in benches are inclined to grow
much stronger and taller, the roots hav-
ing so much more room in which to
ramble, while those grown in pots, their
roots being constrained, grow slower
and shorter jointed, and not being shifted
just before their buds begin to form pro-
duce much finer flowers.

ELIJAH A. WOOD.



Eel-worm Again.

Mr. Edwards forwards diseased plants
for examination, "has never had anything
similar in his experience, and is at a loss to
understand the nature of the trouble; fears
his man has been neglecting things." The
roots were all matted together with eel-
worm, and the probability is that noth-
ing else contributed to the diseased con-
dition of the plants. At this late date it
will not be worth while to try remedies
for the old plants, but my own experience
with them leads me to suggest that young
stock propagated from them be not
planted this season. If the stock can be
changed (of course taking care to secure
such as is positively free), and also the
soil, there may be no trouble during the
coming season.

This eel-worm business is decidedly pec-
uliar; I have seen the roots of roses at
the time they were pulled out, simply a
mass of galls; yet the foliage and general
appearance of the plants furnished no in-
dication of any such state of affairs, being
apparently perfectly healthy; while in
other instances the plants succumbed to
the disease, with the roots seemingly in a
healthier state. The inference is, I think,
that strong vigorous plants will often
grow and do well after being attacked
by the pest, whereas they are almost cer-
tain death to a batch of weak sickly roses.
I would state here that this reply should

have appeared in print some time ago, but was unfortunately overlooked.

ROBT. SIMPSON.

The White Rose Maggot.

The pest is still doing much damage at the establishment of Mr. Peter Reinberg, Summerdale, Chicago, and no satisfactory remedy has yet been discovered. It seems as yet to be confined to this establishment, which is certainly fortunate for neighboring rose growers. It is a small white maggot, not over a quarter of an inch long. It attacks the young tender flower buds at the base, and as a result the tender flower stem blackens and the bud falls off. Meteor seems particularly susceptible to its attacks.

Specimens were sent to the government entomologist at Washington, but he was unable to definitely determine it. It is evidently the larvæ of some fly, but nothing has been seen that might be considered its parent. Should it be disseminated the rose grower will have another serious pest to combat. However, Mr. Reinberg states that plants which must have been infested have frequently been transferred to his brother's greenhouses, which are near by, but the pest has never been discovered there. The land where his greenhouses stand was for many years devoted to vegetable growing and Mr. Reinberg is inclined to think that the pest is some vegetable maggot which has now found in the young rose buds food suited to its taste.

But this is mere surmise and it will be well to be on guard against this new pest, which may for all we can tell suddenly develop in a number of places. Hand picking is the only known remedy so far and at the very first appearance the pest should be vigorously dealt with.

Blasted Rose Buds.

Specimens received from Mr. Jenkins: The blasting of the buds in this case is undoubtedly caused by the small white worm seen on them in large numbers. I am unable to name the insect, but am pretty certain that it is the same little fellow that has given the Beauty growers farther north considerable trouble during the last two or three years, and for which as far as I know no remedy has been found except to cut off the affected tips and burn them. I would suggest that specimens be forwarded to the professors in the Agricultural Department at Washington for examination, it may be that they can not only furnish us the name, but also suggest a remedy. It is possible that a rather strong solution of tobacco extract such as is recommended for green-fly, only considerably stronger would make their surroundings uncongenial if the plants were well sprayed once or twice a week.

ROBT. SIMPSON.

Hybrid Perpetual Roses.

At the recent rose exhibition in Boston the roses which appeared in best form and were most admired were the following:

Marie Baumann, Eclair, Mlle. Marie Rady, Her Majesty, Earl of Dufferin, Baroness Rothschild, Mme. Gabriel Luizet, Ulrich Brunner, Mabel Morrison, Mrs. John Laing, Mlle. Susanna de Rodocanachi, Victor Hugo, Thos. Mills, Jean Lihaud, Mlle. Eugénie Verdier, Margaret Dickson, Mme. Prosper Laugier, Marchioness of Londonderry, Gustave Piganeau, Anne de Diesbach, Louis Van Houtte, Mlle. Annie Wood, Merveille



THE LAKE SHORE DRIVE IN GORDON PARK
THE PARKS OF CLEVELAND, O.

de Lyon, Souv. de Louis Van Houtte, Mons. Bonceane, Jeannie Dickson, Alfred Colomb, Gloire de Margottin, Comtesse de Serey, S. Reynolds Hole, Duke of Connaught and Sultan of Zanzibar.

Red Rose for Name.

The red rose Mr. Fitzsimmons found growing among his Kaisers, and which he thought might be a sport, is unquestionably a Souv. de Wootton; if he will procure a few blooms of the latter, and compare them with his own variety he will I am sure be satisfied as to its identity.

ROBT. SIMPSON.

Herbaceous Plant Notes.

Platycodons are just now in fine shape, showing great masses of their delicate blue or pure white flowers, so perfect in shape and justly admired by everybody; the plants will endure the dry weather without any particular attention after the first year, and they like a sunny position better than shade. Although under the latter condition they would bloom and grow freely, still they are very apt to grow rather tall, so that the weight of the buds and flowers causes the stems to bend over and lie almost flat on the ground, while in an open exposure they seldom show any weakness in the stalk unless the ground be very rich and moist. Young plants show the same defect, but after being planted a year or two the roots will grow stronger, sending up stouter growth, which remains upright all season through without support of any kind. On our grounds the show of platycodons seldom lasts very long because we cut the stems as soon as fairly well in flower, and find use for them in decorations, etc.; otherwise they would continue to bloom for a much longer time, as is proved by a bed planted two years ago on private grounds, where none of the flowers are cut at any time, and which is to-day one of the principal attractions of that place. This bed was planted to *Hypericum Moserianum*, the low shrub which sends out its numerous large yellow flowers from June to November. They were placed two feet apart

each way, the platycodons the same distance between them, and the plants covered the ground the first season. Still, as the platycodons were not yet well established and bloomed rather sparingly, no particular notice was taken of the plants, but this year everybody admires this pretty and lasting combination, which is well worth repeating. Among coreopsis, gaillardias, the yellow *cenotheras*, *anthemis*, etc., the platycodons would not be out of place, and for lower growing plants like *Achillea aurea*, the pale yellow *helianthemum* or the golden Iceland poppy I would advise the planting of the dwarf and compact *P. Mariesi*, the flowers of which are also of a much darker blue.

Geum atrosanguineum with its brilliant red flowers shows off well against a background of variegated *eulalia*, also in another place intermixed with the white *Achillea ptarmica* fl. pl. Partial shade suits the geums best, and the situation should not be extremely dry, otherwise the foliage will suffer.

White phloxes, of the *suffruticosa* section, planted last spring, intermingled with *Campanula carpathica cœrulea*, have been doing splendidly for a long time past, and the bed promises to form an attraction throughout the season, for the phloxes will flower again in fall.

Daphne cneorum, after a rest of five or six weeks, is again in full bloom; its pretty pink flower heads are delightfully fragrant, and the plants grow so compact and even, few plants look as pretty and are so satisfactory all around throughout the season. Even in winter they keep their pretty foliage, and thereby hide the bare ground from view.

Saponaria caucasica fl. pl. with its lovely pink flowers has no equal as a plant for large masses and stands the sun and dry weather surprisingly well. I saw it the other day planted in front of a large clump of *Bocconia cordata*, and it also was intermixed with a few plants of the late flowering *Anemone japonica rubra*, which would brighten the patch in autumn when the *saponaria* would give up blooming.

The tall growing *Spiræa venusta* or *lobata*, as it is called in some sections,



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should have moist ground to do its best, and when grown under such favorable conditions will really astonish you by the extraordinary size and the more brilliant coloring of its flower heads. A fit companion for this superb pink spiraea, growing to about the same height and requiring the same amount of moisture, is a lately imported plant which came to us under the name of *S. gigantea*, with leaves somewhat shorter and broader than in *S. venusta*, and flower heads of immense size, bluish white in color; surely a very fine late flowering spiraea, whether the name be correct or not.

The old *Physostegia virginica*, either the white or the pale lilac blue forms, are not to be despised when seen in broad masses intermixed with a few taller plants, though they may not possess great beauty and attractiveness as a single plant in a mixed border. A very simple, but effective arrangement I saw lately was a large patch of this plant, loosely dotted over with *Coreopsis lanceolata* and edged with the silvery leaved *Stachys lanata*.

Euphorbia corollata, besides being a most useful thing for cutflower purposes, is decidedly elegant in a bed and remains in good condition for a long time. It resembles the *gypsophila* in some respects, but the numerous little flowers are individually larger and more prominent, still retaining that elegant light and airy character of the *gypsophila*. A few

clumps of *Centranthus ruber* (*Valeriana rubra*) will brighten up the patch and relieve the monotony of the bed if it be a large one, though when planted near the walks and backed by taller growing plants, it alone will produce remarkable effects for a considerable part of the season.

Helianthus buttaris, with light yellow, star-shaped flowers, surrounded by the bushy *Clematis Davidiana* and *Gaillardia aristata grandiflora* is a happy combination seen on a private place in this neighborhood; the blue clustered flowers of the clematis show well against the yellow *helianthus* and the darker colored *gaillardias*.

Galega officinalis among a mass of yellow long-spurred columbines is still in fine condition, and *Lilium speciosum*, together with a few clumps of white *Anemone japonica* springing up between them, give evidence that the bed will continue to be attractive for the remainder of the year.

It is not a common occurrence to see flower beds planted in this fashion, but whenever I find one, it generally is arranged with a view to harmony in color and succession of flowering, though sometimes it happens that we find things most unfortunately huddled together and mixed up in such a manner that no plant shows to advantage, and these are the places where the man in charge has but little confidence in hardy herbaceous plants. To all such men I would say, take the

material available, transplant into the border with a view to harmony and succession, but by all means plant in masses and have a good show at least for a month or two if you can do no better, you surely can improve on your own planting the following year and easily get a succession of bloom all through the season if you only will take the trouble to note the time of blooming and the colors of the different plants you have on hand. No matter if these plants are old-fashioned and considered out of date by a great many of our prominent florists, the public taste for them is surely on the increase, though it may take some time to reintroduce all the old things, for I have found some difficulty in obtaining many of these half-forgotten plants, with which I was familiar years ago when a boy. Nobody seems to grow them now, but occasionally they can be found in private collections on old estates, where they have flourished for a century or more.

Rochester, N. Y.

J. B. KELLER.

Fern Notes.

LASTREAS.

Considering the numerous species and varieties included in this sub-genus of aspidium, there are comparatively few that are of much value for florists' work, and although there are some good things none are grown to anything like the extent the pterises and others are; this is

probably on account of their being so slow in a young state, for when well grown some of the varieties are very pretty; and of a light and distinctive character. Another point in their favor is they do not require much heat, and their fronds being of good substance they last well, though when once they get shabby they are only fit for the rubbish heap; for they rarely recover and make good plants again.

All the lastreas may be raised from spores, which if taken at the right time, germinate fairly well. The fronds should be taken as soon as the first spore cases begin to open. I have perhaps given the same instructions with regard to other ferns but as this is one of the most important matters connected with fern culture it cannot be repeated too often. I also find it is more important to have new spores of the lastreas than of some ferns. Being very slow in a young state they are apt to get over grown by others which grow rapidly, and if care is not taken they may be lost; it is, however, very easy to recognize the true seedlings even before they make the first frond, the prothalli being generally rather large, oblong and of a deep green.

The lastreas succeed best when potted in good loamy soil, about two-thirds good loam, some leaf-mould, and well rotted manure to make up the other third, and sand added, makes a good compost. Those with a single erect crown should be kept down well when being potted on. If the top of the crown is kept just above the surface it will keep the plant firm, and they also make better growth, as the new roots which come from the base take hold of the soil better. Of the most useful sorts *L. patens* may be taken as one, this produces rather long pinnate fronds from a single crown, the fronds being prettily recurved, and of a pleasing shade of pale green.

L. lepida somewhat resembles the above, but has very narrow pinnae, and pinnules curl inwards a little. When well grown, this makes a very elegant table plant, and may be regarded as a most useful fern for florists' work.

L. aristata, the normal green form, though a good fern, is not much grown; but the variegated variety is very popular, the distinct linear marking of greyish green, on the dark bright green surface, makes it very attractive. When grown singly the plants have a one sided appearance, as the prostrate stolons generally grow towards one side of the pots. Young plants should be grown singly and later on two or three may be potted together, placing them so that they grow in opposite directions. When grown this way they make nice specimens.

L. atrata is a serviceable fern but is not much grown, the dark green pinnate fronds, though of good substance, are of a too somber hue to be very attractive. *L. quinqueangulare* makes a nice plant, but is not often met with in good condition, being one of the most difficult to get from spores. *L. triangulare* is another good form; both of the above grow taller than *decomposita*, which otherwise they somewhat resemble. *L. Richardsi multifida* is the only really good crested form that I am acquainted with (except in the hardy British varieties), the pinnae each terminate in a tufted crest, the fronds also have a rather heavy terminal crest. It is of free growth and makes a symmetrical plant, but unfortunately it is nearly deciduous.

L. erythrosora, which is a Japanese species, is well worthy of culture on account of the rich bronzy red tint which



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the young fronds have when grown under favorable conditions. To get the brightest tint, the plants should be fully exposed, and must not be allowed to get too dry. *L. varia* also has a bronzy tint, and makes a nice pot fern. *L. prolifera* may be particularly recommended for small pots, but is not of use in anything larger than a 3 inch. It is one of the best for filling the small fancy pots now so much in use.

A. HEMSLEY.

Cycads.

This interesting family of plants includes a number of very handsome members, though but few of them are counted among standard stock for the retail florist, probably more due to their comparatively slow growth than to a lack of beauty. The cycads in general are not

specially difficult to grow, though in common with most other plants require good living in order to give the best results, and the method so often used of keeping them starved in very small pots, comparatively speaking, no doubt has much to do with the slow rate of growth that is often complained of. Good fibrous loam from an old pasture, mixed with some sharp sand and a moderate amount of bone dust and thoroughly rotted manure, forms a very satisfactory compost for these plants, and if the roots are in good condition a large amount of water can be given and properly assimilated. Stagnant water is, however, highly injurious to the cycads, and for this reason the drainage should always be kept in good order.

In reference to temperature it may be said that many of these plants will en-



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dure a comparatively low temperature, for instance, 40° to 45° without material injury providing they are kept somewhat dry at the root, but much more progress will be made with similar specimens that are kept at a temperature of 65° to 70° .

The species best known and most valuable to the florist are found among the cycas, a group including six or seven species, and from this number three may be taken as most useful for our purpose. The first in importance is *Cycas revoluta*, the so-called sago palm, a name not strictly correct, though generally accepted in the trade. The dormant stems of *Cycas revoluta*, minus roots and leaves, now form a considerable item in the importations of plants from Japan, being handled in this dry condition by the ton by some large dealers, all of whom readily guarantee them to be the "genuine long-leaved variety," as witness the advertisements that will shortly appear. These dry stems should be potted up at once on their arrival, and placed in a warm house, moderately shaded and kept moist, and in a few weeks most of them will bring forth a new growth of leaves and soon become salable plants. The cut leaves of *C. revoluta* are also imported in considerable quantities, being dried, colored and varnished, and in this condition are quite convenient for certain decorations, though not quite equal to fresh leaves for funeral designs.

The second species to which attention may be called is *C. circinalis*, a large-

growing and very handsome plant, the leaves of which are divided into a large number of dark green pinnae, somewhat drooping and lighter colored beneath. *C. circinalis* is more graceful than the preceding species, but the foliage is more brittle and will not stand as much rough usage as that of *C. revoluta*. *Cycas siamensis* is of similar character to *C. circinalis* in some respects, but darker in color, and the leaves more upright in growth, and it also appears to be a more rapid grower. Seedling plants of *C. siamensis* with good treatment become nice looking specimens in 6-inch pots in about two years, and at this stage of growth seem to throw up leaves in succession rather than in the form of an annual growth as commonly seen among this class of plants.

Dioon edule is a Mexican representative of the cycads, and has been in cultivation for many years. It has pinnate leaves that sometimes attain a length of five to six feet, the pinnae being very stiff and sharp pointed and glaucous green in color. *D. edule* is a decidedly ornamental species, but owing to the stiffness of its foliage has become rather unpopular as a decorative plant. *Encephalartos* also includes some notable members of the cycad family, two of the best species being *E. Altensteinii* and *E. villosus*, the latter being the most common species in cultivation, and having long pinnate leaves, the stems of which and also the crown of the plant being more or less covered with

whitish wool, and the pinnae somewhat toothed and armed with spines. *E. Altensteinii* bears some resemblance to the preceding species but is rather stiffer in outline and has the base of the leaves much swollen. These plants make stems but slowly, and as usually seen the stem is very short and thick.

The macrozamia include several graceful species, these plants being rather lighter in foliage than most of those already noted, and mostly requiring warm house treatment for their best development. Unfortunately the macrozamia are not at all common in cultivation, and they can thus scarcely be reckoned among the available commercial species. *M. Fraserii* is one of the best of this group, having long and pendulous pinnate leaves of very dark green color, which are said to sometimes attain a length of eight feet. *M. Perowskiana* is also good, having very broad fronds of dark green color, which are thrown up from a stout trunk. *M. plumosa* and *M. spiralis* are also worthy of note, both of these having somewhat irregular fronds of slender and graceful outline, and those of *M. spiralis* being lighter in color along the midrib, this giving a somewhat variegated effect.

W. H. TAPLIN.

Clematis Jackmannii and *Yuccas*.

I find a pretty way to treat *Clematis Jackmannii* or *C. J. superba* is to plant a good specimen in a suitable location and

train it to a stout stake six or seven feet high, then plant yuccas around it 2 feet apart in a circle. They do well together, bloom together, contrast splendidly and make a very beautiful object. I have had them blooming in that way lately and they attracted a good deal of attention. Bloomington, Ill. F. A. BALLER.

General Plant Notes.

Ferns: It may safely be said that ferns were never so much in demand as during the past spring season. They were much used by our metropolitan florists for some time before the provincial florists seemed inclined to take them up, but gradually they have come more and more into use, and at the present time the country demand exceeds that of London. Fashions change a little; the heavy crested varieties are less in demand, while even the old form of *Pteris serrulata* now finds much favor. The broad fronded *P. cretica* major, or *Ouvrardi*, as it is often named, is a great favorite and although variegated ferns do not all take well, the old *Pteris cretica albo-lineata*, which a few years ago was hardly worth growing, now sells well. We have lately been able to put a large quantity of *P. Wimsettii* on the market, and find it is much appreciated. It will certainly take first place among the crested pterises. The demand for *nephrolepis* increases, especially for *exaltata*; *davallioides furcans* also sells well. *Selaginellas* are now much more used than formerly, *S. amœna* and *S. Emiliania* being among those which have come to the front. I hope to give a list of the most useful of these later on.

Palms: It can hardly be said that our English markets are yet overdone with good palms; although it was suggested a few years ago that kentias would soon come to the price of geraniums and fuchsias, this has not yet come to pass or at least not for good well furnished plants. Perhaps the scarcest thing just now is *Kentia Belmoreana*, of the larger sizes, even those in 5-inch pots command fully as high prices as they did several years ago, and good specimens in from 8 to 12-inch pots are difficult to find in quantity. Seeds of *Cocos Weddelliana* has been scarce again this season.

Rose Crimson Rambler: We flowered this well early this season and found it was much appreciated. Plants in 8-inch pots with long growths which had been well ripened early last autumn produced a great profusion of bloom, the foliage also was very good; and a great point is the flowers last well when fully out. This will undoubtedly become a popular plant among decorators for early spring work. I may add that it requires good management to succeed well, and I have seen several failures with it; either through the wood not being properly ripened or through injudicious treatment when starting the plants.

Spiræas: Since the adoption of the refrigerator for retarding growth we have spiræas all the season through, and those which have been retarded seem to come equally as well as those flowering at the ordinary season. The old *S. japonica* seems likely to outlive all newer introductions, *S. multiflora compacta* was and is still a favorite with some, but for some purposes we have to go back to the old favorite. *S. astilboides* is now much grown, and the variety *floribunda* seems likely to come to the front. We tried it this season with favorable results.

Geraniums: All kinds of bedding stuff seems to have gone out well this season, but more particularly geraniums. It is not often that demand exceeds the supply,

but it has been the case this season for really good stuff in geraniums, though of inferior quality there has been enough and to spare.

Sweet pea Cupid: This has been tried by a few of the market growers and seems likely to prove a useful plant, and in every respect bears out the description given it. We have grown several hundred plants, and though they have had no special treatment they have done fairly well. I hope to try it under rather different conditions next season. Properly treated it should make a fine window-box plant.

Calla Elliottiana: This fine aroid has been shown in grand condition this season, and promises well to make a useful plant for decorations, but we must wait until the price comes down a little before it will do for Covent Garden Market.

Crassulas: The new hybrid varieties such as *W. Pfitzer*, *M. Buchner* and *Mrs. Wynne*, are useful flowering plants for this season. They give little trouble and flower very freely, making dwarf and compact plants grown on out of doors in summer, and a cool house during the winter. If fully exposed to sun and air they never fail to flower well. A. H.

Japan Longiflorum Grown by Robt. Craig.

The illustration shows a house of very well grown lilies, one of two that Mr. Robert Craig of Philadelphia grew for the Decoration Day trade. It is interesting as a demonstration that the longiflorum bulbs from Japan are equally floriferous with the bulbs grown on the island of Bermuda. The bulbs used were 7 to 9 inches in circumference and produced 7 flowers, average (some more, some less), to each plant. The growth was vigorous and healthy and very even. There was no trace of disease on any of the plants—on the contrary the whole batch was bright and clean.

Among many growers there seems to be an impression that the Japan longiflorums cannot be brought in on time for Easter. This impression is doubtless a relic of the time when Japan bulbs could not be had in the United States until November, whereas now we can get them the third week of September. The testimony of such well-known growers as George Anderson and Jno. Westcott of this city and many in other localities is that they can be got by Easter all right if the bulbs are planted early in October. Mr. Anderson had the finest batch of longiflorum that came in to the Philadelphia market last Easter. The bulbs were also Japan grown.

It is well that growers can patronize this source of supply with confidence, when prices or qualities from other sources are unsatisfactory. G. C. W.

New York.

One does not need to consult the calendar to find that midsummer is here. Profound stillness reigns in the florists' stores and in the wholesale marts, where but a few weeks ago all was hurry and bustle in the morning; the counters are swept clean and there is scarcely a sign of life. Even the Greek has for the time being ceased his chattering and expostulating, and the majority of him has dropped out of sight.

The quantity of flowers coming in is fortunately proportionate to the demand, and the meagre stock of good clean roses is easily disposed of at reasonable prices. Perhaps a larger cut of American Beauty could be profitably handled, there being a special demand for this variety from all

quarters. Bride, Bridesmaid, Meteor and Kaiserin constitute the balance of the list most called for. Carnations are in many cases very fine, but prices rule low for such well grown flowers as some growers are sending in.

J. H. Taylor is one of the few large growers who make a point of running a certain number of houses specially for summer bloom, and is now sending in Brides and Bridesmaids of unexcelled quality, considering the season. These roses occupy houses that have hitherto been devoted to chrysanthemums and forced hybrid roses, of which Mr. Taylor will hereafter grow much less than formerly. He is enthusiastic over his success with roses carried over in the benches from year to year and attributes the failure of some growers with such stock to possible mismanagement in the matter of drying off and again starting the plants, which he considers one of the most vital points. There is a nice bench of the new rose *Dean Hole*, which looks promising and will have an opportunity next season to demonstrate its value. Mr. Taylor had a severe fall from his bicycle recently, but fortunately escaped with a slightly sprained ankle.

In front of Geo. M. Stumpp's store on Fifth avenue may be seen the finest pair of bay trees ever brought to this country. They are pyramidal in form, well furnished and stand ten feet high above the tubs. Frank Schlotzhauer, Mr. Stumpp's head man, left for Los Angeles, California, on July 2 in response to a telegram announcing the death of his father at that city. Mr. Stumpp and family are stopping at the Hotel Wawanda at Liberty in Sullivan County.

The suit of Geo. Cornatus in the supreme Court against his two rival countrymen from the home of the Spartans has been decided in his favor, and the objectionable flower stands on Broadway, Brooklyn, must be removed.

Mr. Keller of the firm of Reed & Keller, wire design manufacturers, will sail for Europe on the *Furst Bismarck* next week.

Philadelphia.

The July meeting of the Florists' Club held last Tuesday evening was quite well attended, and while there had been no paper prepared for discussion there was discussion just the same. Payment of dues was in order at this meeting, and the treasury was replenished to a considerable degree. The last installment was ordered paid on the club's subscription to the bonds of the Horticultural Society, and the members have now the distinction of being bondholders. "What qualifications should a man possess to make him eligible to honorable membership" caused considerable discussion and remains still an open question.

Convention matters were given attention. The route, all rail or rail and boat, hotel accommodations, etc., were taken up. John Westcott was appointed a committee of one to attend to transportation, and D. D. L. Farson was placed in charge of hotel accommodations. Mr. Westcott thought the best route was by rail to Buffalo, and the balance of the distance an all night ride by boat. He had heard that it was likely that the New York and Boston delegation would adopt this plan, and he thought that those going from this city and vicinity couldn't do better than join them at Buffalo, and continue the journey together from there.

The matter proposed at the last meeting of the executive committee of the S. A. F. relative to the membership of the



HOUSE OF JAPAN LONGIFLORUMS GROWN BY ROBT. CRAIG, PHILADELPHIA.

various clubs in that body was discussed, but no definite conclusion reached; it was thought, however, to be a good plan provided the club did not have to pay the dues.

It was proposed to hold at the meeting in August a canna symposium. This is to include an exhibition of all the newer varieties that the committee can obtain, and a discussion on their merits to be under the charge of Robt. Craig. This should be a drawing card, as the canna has been making rapid strides in the past few years, and a collection of the best kinds should make a show worth seeing.

A little was said about bowling and an effort is to be made to get some of the talent together so as to make a respectable showing and get a place if possible. The gunners were not present, having a meeting and arranging matters for their trip to Baltimore, for which city they left Wednesday morning last. Robert Craig was appointed by resolution of the club to represent them on the Advisory Board of Institute Managers. Two exhibitions or institute meetings are held in Phila. each year in connection with the State Board of Agriculture, and being a kindred body it was thought advisable to be represented. Edwin Lonsdale is a member for the Horticultural Society, and he reports the institute meetings very instructive and profitable.

Things are very quiet now; the "Glorious Fourth" is past, and as far as we can learn none of the craft lost any fingers or thumbs. It had usual effect on the business, closing most of the stores all day, being in reality the florists' only holiday. Sweet peas are now very plentiful, and never better; the abundant rains that have fallen recently have done a great deal of good, and most all outside stock is in fine growing condition. One grower

complains of his carnations, saying that many of the young plants are damping off out in the field; this is entirely a new experience for him, and he cannot account for it.

K.

Boston.

If the beach and mountain trade were to open up after the style of ten years ago, Boston could supply the right stock and plenty of it. It would seem that more growers than usual are interesting themselves in the production of good flowers for summer demands, for there has never before been so much really fine stock on the market at this period of the year as at present. When the summer resort trade was booming buyers had to be satisfied with some pretty poor specimens and pay high for them, for there was nothing else obtainable; now that good stock is available in abundance and cheap they do not want it. Flowers are undoubtedly used at these places as generally as they ever were, but local production is now sufficient to supply the demand except in rare emergencies, and the summer shipping business, once so important an item in the wholesalers' trade, is no longer a factor. Local demands are also light and the adoption of the five o'clock closing rule by both retail and wholesale establishments has inconvenienced no one. With many of the stores it might as well be one o'clock as five o'clock, and it is possible that the earlier hour may yet be adopted on Saturdays.

The best roses in market now are Meteors, of which Welch Bros. are receiving large daily shipments. Kaiserin Augusta Victoria is also seen in splendid quality. Bridesmaids and Brides average small at present. Carnations are still good and rather overstocked. Sweet

peas and gypsophila are abundant and form, with carnations, the main stock of the street peddlers, who seem to pick up considerable business, notwithstanding the prevailing dullness.

The Saturday shows at Horticultural Hall have started off with every indication that they will be fuller and draw a larger attendance than ever before. On Saturday of this week gloxinias, hollyhocks, and antirrhinums will be the specialties in the flower department, and next week hydrangeas, achimenes, tuberous begonias and hardy ferns will be especially provided for. On September 2 and 3 will be held the great annual exhibition, when it is expected that the display of aquatics will be the finest ever shown in this country.

Lawrence Cotter has concluded to run most of his rose houses a second year without replanting. A house of Souvenir de la Malmaison at this place is a handsome as well as unusual sight. It is full of buds and is a reminder of the old times when this fine summer rose stood in the first rank.

Pink pond lilies are unusually good this summer, being large and deep colored, but their popularity seems to have waned somewhat.

Visiting Boston, S. S. Pennock, Philadelphia.

Buffalo.

The usual midsummer pacific state of affairs has come upon us, and once more let me tell the readers of the FLORIST that for the past six months of this year Buffalo has the lowest death rate not only of any city in this favored land, but of any community in the world where a record of vital statistics is kept. It was for the six months just passed 11 per thousand. This is wonderful, and is accounted for

not only by its 350 miles of asphalt pavement, its strict sanitary laws, the healthful sweep of Erie's breezes, but a big factor is the good behavior and general moral tone of this most cosmopolitan community. Under these conditions our wealthy people do not all leave the town to seek fresh air in an ocean voyage, a mountain retreat or a fashionable seaside resort. I can't say much about the flower market. There is no difficulty in supplying flowers for the demand.

The firm of Mepsted & Asmus no longer exists. They gave up both the store and the greenhouses a few days ago. The writer knows little about their affairs, but may later.

Mrs. Eckard, the mother of our hard working young florist, George Eckard, died last week, age 54. George and his mother have been quite successful of late years, and through persistent hard work have been doing a good business.

The only stranger in town whom I have run across was Mr. De Forrest, representing Hitchings & Co. There was a good deal of hot water talk while he was around, and a trip to Corfu with W. S. and a Scotch friend was very enjoyable, when the conventionalities of business were cast aside. Mr. De Forrest is a most agreeable companion and can enjoy most anything from a joke to a plate of pork and beans. He thought there was a system of heating in vogue in the village that was simple and most economical.

We are at present blessed more or less with fifteen thousand school ma'ams. The National Educational Association is holding its convention here, and it's a big one. While the fruit of the timothy is seen to adhere to many of them there are many bright people among them, and as a body an honor to the nation. W. S.

Chicago.

The leading sensation of the week has been the reported sudden departure of Otto Mailander of Niles Center, leaving a very large indebtedness behind him. His whereabouts is a mystery, and his place is in the hands of the sheriff. It appears that for some time Mr. Mailander has been acquiring all the ready money possible by the simple expedient of borrowing from confiding friends, and paying for nothing whatever, except the help on his place. He borrowed varying sums from the commission men with whom he did business, giving notes. He borrowed from a number of his neighbors, chiefly farmers, sums varying from a few hundreds to a thousand dollars. He had just got a new boiler, which was not paid for, and his coal bill now owing is said to be \$1400. He owed big bills to the local butcher, grocer, and hardware man. He has not paid for the Dutch bulbs he forced last winter, nor for the Harrisii he cut at Easter. In fact he has paid for nothing whatever except help, which was unavoidable. His credit was so good that people who knew him seemed quite ready to trust him for any reasonable amount, and he seems to have left enough promissory notes to paper a room. He has been buying plants and tools on credit lately; whether these have been shipped to some secluded spot where he will begin life anew, or whether they have been sold again is unknown. The fact of his buying such material gives color to the impression that he intends starting business in some unknown locality, but many of his creditors think he has gone to Europe. His wife remains at Niles Center, and says she is unable to throw any light on the matter. It is esti-

mated that the indebtedness at Niles Center amounts to \$20,000. There is a mortgage on his place at Niles Center, but it only represents a part of its value.

Mr. C. L. Washburn of Bassett & Washburn, had a very unpleasant conclusion to his Fourth of July celebration. When preparing to retire for the night a man was discovered secreted in a closet, evidently waiting for the house to become quiet so he might carry off what he could. In response to a call Mr. Washburn came and met the man at the head of the stairs. He clinched him, but the impetus of the running man was such that they both fell together nearly all the way down stairs, Mr. Washburn bringing up against a partition at the landing with such force as to injure his hip quite badly, though not so seriously as to keep him from attending to business. The fellow escaped, but was subsequently recaptured.

J. W. Rathborne is preparing to tear down and remove the greenhouses at his south side residence. He will not rebuild.

At the meeting of the Florist Club last Thursday evening little but routine business was transacted. At the next meeting the question of arranging for a picnic or some similar outing will be considered and acted upon. It was proposed that the club arrange for a picnic the features of which would include a baseball game, a bowling match and a shooting match. A full expression on the subject will be had at next meeting.

All who contemplate attending the Cleveland convention of the S. A. F. are requested to report to Mr. G. L. Grant, 322 Dearborn street, so that arrangements may be made for a special car if the number going will warrant it.

Business is in a state of innocuous desuetude. It is slower than last week. There is still a certain sale for good roses, but they are scarce, and there is little sale for all the cheap stuff. Prices are just about the same as last week. First-class Kaiserin bring \$4, Meteors \$3. The average prices are \$1 to \$3. Valley is now over, and there is no more to come in until September. Sweet peas are very plentiful at same prices as last week. The only trade now is for funeral work.

A ball game will be played Sunday next, July 12, between the florists and a team of barbers, at Reissig's grove, Riverside. A train on the C. B. & Q. may be taken at 1 p. m. Visitors are requested to bring their bicycles and their lunch, and be prepared for a pleasant afternoon.

Visited Chicago: R. Uttenweiler of the Illinois University, Champaign; John Willis, Danville, Ill.; B. E. Wadsworth, Danville, Ill.; F. Sestier and wife, Des Moines, Iowa; E. P. Clowse, Stuart, Ia.; Lauren A. Perkins, Waukegan, Ill.; Victor Wayman, Madison, Wis.; W. F. Zane, Wheeling, W. Va.; F. W. Ostertag, St. Louis; Chas. McAniff, Supt. Springfield Rose Gardens, Springfield, Ill.

Pittsburg.

Mr. George Oesterle has severed his connection with Mr. Lauch at Carrick, Pa., and now has charge of the greenhouses of Randolph & McClements at South Highland and Baum Sts., East End.

Mr. Henry H. Negley left on Saturday for Georgia, where he has a fine fruit farm; he expects to be absent about ten days.

Mr. Fred. Burki, Bellevue, Pa., was thrown out of his wagon on Tuesday, cause broken front wheel; fortunately the horses were stopped immediately and he escaped with only some severe bruises and a good shaking up. He is to be con-

gratulated on his narrow escape, for if the horses had succeeded in getting away he would have been seriously injured.

Business during the week with the florists has been very good for this time of the year, and everyone is hoping the demand will keep up. There was no very large social events, but numerous small ones, these with funeral work made the volume of business very fair. The weather on the Fourth of July was very rough, raining several times during the day very heavily, preventing the full program as arranged for by Superintendent Falconer of Schenley Park, from being executed, although a large number of people attended notwithstanding, and in the evening, to see a grand display of fireworks, the attendance was estimated at fully 100,000. The most complete arrangements had been made to entertain and amuse visitors and had the weather been fair, Mr. Falconer would have had the satisfaction of giving the greatest celebration we have had yet at Schenley Park. The postponed events, bicycle races and athletic sports will all be brought off this week and next; some very handsome prizes are to be contested for.

The same trouble was experienced by Supt. McAfee at Riverview Park, Allegheny City, although he succeeded in giving most of the races on the program, as it did not commence raining there as early in the day as it did at Schenley. Their firework display was witnessed by a large number and gave great satisfaction.

Mr. Walter Breitenstein has concluded to furnish a novelty and innovation to the trade, namely, he will close his store on the 13th inst and not re-open until September 14, and has so notified his patrons. He thinks there is no pecuniary advantage to be gained by keeping open store during July and August, and therefore closes. During the interim, he will take a trip through the Cumberland and Shenandoah Valleys, continuing to Look-out Mountain, and will probably go most of the way on his "bike."

Mr. James Dell reports trade fair for the season, as with others funeral work helps. He furnished a very handsome design during the week, a blanket 7½x6 feet made with purple and white sweet peas and purple asters, it was very artistic.

Elliott & Uam also report a fair week, in fact were real busy part of the time.

Mr. N. Patterson has returned and evidently has secured what he went for, his health; he says he feels first-class, and he certainly looks it.

Elliott & McGuiness are getting their share of trade and are well satisfied with the summer's business so far.

In my notes for week of June 27, relative to the complaints made at the club meeting about parks, etc., I should to prevent mis-apprehension, have stated that the Pittsburg parks were not mentioned and were not included in the accusation, and now to many of our florists, the complaint about the Allegheny Park is considered very much as making a mountain out of a mole hill.

REGIA.

The committee named in last notes should have read as follows: E. Snyder, S. Gass and O. A. C. Oehmler. Mr. Ludwig was not a member of the committee.

St. Louis.

There is nothing new to be said of the trade; it is the same old summer business as of yore in local retail circles. There is

practically nothing doing; here and there a funeral order serves to break the monotony, but there is little even of that. What you see in the florists' windows now is gladiolus stalks, all colors of asters, and sweet peas. Roses are scarce, as everybody is replanting, remodeling and repainting. Carnations are more plentiful this week. The wholesale men have lots of outdoor stuff on hand that can't be sold, but say that real good stock that could be sold is very scarce.

Convention talk is now the main topic among the florists; who and how many are going will be found out at the next meeting of the club.

The Cannon Floral Co. has closed the main store at 2742 Olive street and moved out to their branch store, 4244 Olive street. Mr. Cannon will only run one store in the future.

Samuel M. Bayles, the old and well-known nurseryman of St. Louis, died in Texas last week. The body was brought here for interment. The funeral occurred July 3, from his late residence, 4390 Lindell Boulevard; a large number of florists and nurserymen were in attendance.

The board of commissioners of what was Lafayette Park, composed of Herbert Durant, Nathan Cole and Jacob Christopher, held a meeting Friday night to discuss the problem presented by the ruin of this once beautiful park. Mr. Durant said of course any trees that can be saved will be given the best care possible, but this number is not great after all the debris has been cleared away. New trees will be set out; fortunately we have some money, about \$2,500 in the shape of a special appropriation, that will defray the immediate expense. The work of removing and replanting has begun in charge of Superintendent F. L. Hunt.

Jordan Floral Co.'s new quarters, 822 Olive street, are very large, and when completed will be one of the largest and finest floral establishments in the city. Mr. Jordan says that this is his second move in 30 years; the first store was at 612 Olive street, the second just one block west at 706 Olive street, and now at 822, one block from the old stand.

Frank Fillmore is very busy just now remodeling and repainting his rose and carnation houses, Frank reports that spring trade was good and that he expects to have a large supply of roses and carnations this fall.

The picnic committee did nothing last week in regards to the coming picnic; the committee could not hold a meeting, owing to chairman Kunz being too busy moving.

Burt Von Simon, with Crosman Bros., Rochester, N. Y., is in the city. He has his wife with him this trip; only two weeks married.

A. Y. Ellison left the city July 6 to take his new position with N. J. Burt & Co., seedsmen, Burlington, Iowa.

Mr. Halstead and Mr. Emmons, both Belleville florists, lost their youngest children last week. They have the sympathy of all St. Louis florists.

The bowlers had a good time Monday night; the attendance was slim owing to a rain storm, but those that did come had fun. Fred Weber was high man of the night, 558; Emil Sebray was second with 512; and Beneke third, 504. Weber was also high on single score, 226. A diamond pin has been donated for the best bowler at the picnic and next Monday night will be practice night for all florists who want to bowl at that event. J. J. B.

Correction.

In the article on page 1248, issue of June 20, under the heading "Adiantum Farleyense," the temperature given in the seventeenth line read "65° to 70°," and not "75° to 70°," as printed.

PROPHETSTOWN, ILL.—Chas. W. Noyes has purchased the interest of W. W. Noyes, in the firm of W. W. and C. W. Noyes, and will continue the business under his own name.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By thorough florist; German, age 25, single. Good references. Address M. C., care American Florist, Chicago.

SITUATION WANTED—To take charge, by a first-class grower of roses, carnations, mums, palms, ferns and general stock; forelog of bulbs, etc. Can give first-class references. Single. Address GROWER, 129 N. Clark St., Chicago.

SITUATION WANTED—By florist, with 11 years' experience in growing roses, carnations, mums, etc., as working foreman or first assistant. Good propagator and design worker; sober and not afraid to work. An up-to-date place preferred. Address FLORIST, care American Florist.

SITUATION WANTED—By practical florist and gardener. Would like to take charge of a private place in New England or eastern states only. Very successful in the growing of palms, ferns, carnations and general stock; 18 years' experience in private and commercial places; age 35, single. Address HIRAM, care American Florist.

SITUATION WANTED—By single man, gardener and florist, competent and reliable, for large or small place, private or commercial. Correspondence solicited. This is an exceptional opportunity to secure a good man who will render faithful and valuable service. Willing to go to any part of the country. References O. K. Address L. N., care Am. Florist.

SITUATION WANTED—By an experienced and practical florist and gardener; quiet and steady; strictly temperate and honest; 16 years' experience; but do not pretend to know all and everything; 32 years old, married; 5 years in present place. A good place and treatment more of an object than high wages. When answering please give full particulars. Address FLORIST AND GARDENER, care American Florist.

WANTED—Young man that has some knowledge of roses and carnations for cut flowers. Address stating wages expected with board. COLE BROS., Box 577, Peoria, Ill.

WANTED—A first-class rose grower, one with long experience. Must have the best of references. Seven iron houses. Address A. K., care American Florist, Chicago.

WANTED—A competent man to take charge of greenhouse; or will rent to responsible party. For particulars address MRS. I. N. PARTRIDGE, Sycamore, Ill.

WANTED—A good florist, one who can grow roses, carnations, chrysanthemums and general stock of cut flowers and plants for retail store trade. Must be sober, honest and a good worker, and able to take charge of place. State wages with board. FRED J. KING, 220 Madison St., Ottawa, Ill.

WANTED—Competent general florist, to take charge of place in town of 5000. Good established trade. Left on my hands by death of my husband. Will give one-third of proceeds to right party and bear all expenses. Young man who will board with me preferred. Address with references immediately. MRS. H. COLCLOUGH, Mt. Pleasant, Iowa.

WANTED—Good florist and gardener to take charge of Scotch gentleman's place. Grounds 3½ acres, garden 1 acre, greenhouse 80x20 feet. All help needed given. Place is very quiet, and only suited to a settled man. Scotchman or Englishman preferred, with good recommendations. Living cheap; climate splendid. A good house, firewood and \$40.00 monthly. Address B. J. FISHER, Asheboro, Randolph Co., N. C.

\$4,000—Wanted Partner to Invest above amount for half interest in greenhouse business within 3 miles of Philadelphia, been established 20 years, plant contains 100,000 square feet of glass fully equipped for heating and watering. Excellent opportunity for party having above amount to invest in safe business. Experience not necessary. Good reasons for wanting partner. Best of references given and required. Address THEODORE WILES, N. Cramer Hill, N. J.

FOR SALE—An 8 section Carmody hot water boiler in good condition. Address W. H. DRUSE & Co., Beardstown, Ill.

FOR SALE—At half price, three greenhouses, stock, boiler, pipes and everything belonging to it, if applied for soon. W. S. P., care American Florist.

FOR SALE—At great bargain, two greenhouses, at Eatons, O.; well stocked, and heated by boiler. Must be sold at once. J. H. FOOS, Eatons, O.

FOR SALE—Four greenhouse; two 11x75, one 19x75 one 22x75, and two lots 100 feet front, 120 feet deep, and a good stable. The houses are heated with hot water. Address R. I., care Am. Florist.

FOR SALE—The Anthony Greenhouses, long established, popular, well known greenhouse and cut flower business, well stocked. A bargain. Terms reasonable. Address DEAMOND, care Vaughan & Seed Store, 84 Randolph St., Chicago.

FOR SALE—A bargain; two greenhouses 100 ft. long, in Macomb, Ill., heated with hot water; hotbed sash, tools, wagons, two horses, a large stock of plants, a good established trade, in a good city; 3 years' lease on the ground free. Four acres of growing vegetables. All for \$1,500. I. L. PILLSBURY, Galesburg, Ill.

FOR SALE—Cheap and on time to suit, three small greenhouses to be removed (one 20x30; one 18x30; one 10x15 feet, all heated with Hittchings' 9-ft. hot water pipes and Devine Saddle Boiler; also patent ventilators. I will sell these for very little more than cost of taking down, provided they will be taken away before the 1st of September. Apply at Room 925 Riado Building, Chicago. From 9:00 a. m. to 5:00 p. m.

FOR SALE—Near New York City, a large greenhouse establishment. In perfect order, planted out for coming season. Full line of tools, pots, etc., horses, carts, wagons, harness, and in fact everything necessary for the business. Dwelling houses and all out-buildings required; abundance of water, under natural pressure; perfect drainage. As many acres of ground as required. Fine scenery and roads; schools, stores, etc. This place is worth \$50,000; would sell for \$25,000, or \$30,000, according to amount of land taken. Easily subdivided. Terms to suit purchaser. For further particulars, address J. R. T., 26 West 1st St., New York City.

FOR SALE—On account of heart trouble, making it absolutely necessary for the owner to go to Germany at once, the Albert Fuchs plot, established 12 years; cost \$25,000, will be sold for \$10,000. It consists of 20 houses, newly stocked with 2000 mums, 20,000 palms and ferns cut flower range prepared for winter business with 4000 mums, 1000 roses, etc. The best retail place in Chicago, 100 feet from the Boulevard, reached by three car lines. Property value \$50,000, monthly rent \$50, 10 year lease. \$2,000 to \$3,000 in cash required. Will give \$500 commission to anyone who sells it before owner leaves for Europe. ALBERT FUCHS, Evanston Ave., Chicago.

FOR SALE—Second-Hand Boilers.

- 2-60 H. P. TUBULAR BOILERS.
- 3-40 H. P. TUBULAR BOILERS.
- 1-25 H. P. TUBULAR BOILER.
- 2-25 H. P. LOCOMOTIVE BOILERS.

All the above are in first-class order, well adapted for greenhouse heating, either steam or hot water. Will sell cheap.

CLEVELAND STEAM BOILER WORKS, Cleveland, O.

PANSY X SEED.

The Jennings strain of finest American grown Pansy Seed. New crop ready June 15th. The grandest combination of colors ever sent out.

The largest flowering. The strongest growing, and the most beautiful colors in great variety. Very finest mixed:

Pkt. of 2500 seeds, \$1.00; ½ oz. \$3.00; 1 oz. \$6.00; 3 ozs. \$15.00. White and yellow in separate pkts., same as above. Half pkts. 50 cts.

CASH WITH ORDER.

E. B. JENNINGS, L. B. 254, Southport, Conn.
Grower of the finest Pansies

Roemer's Superb Prize Pansies.

The finest strain of Pansies in the World.

Introducer and Grower of all the leading Novelties.

Catalogue free on application.

FRED ROEMER, SEED GROWER,
Quedlinburg, Germany.

SPECIALTIES

IN BEST VARIETIES.

ROSES, from 3-inch pots.

CARNATIONS, for fall delivery.

CHRYSTANTHEMUMS.

SMILAX.

Prices low. Send for list.

WOOD BROTHERS, FISHKILL, N. Y.

We devote our whole attention to

DAHLIAS

and not only have the LARGEST and BEST collection in America, but guarantee our stock true to name. We are now filling orders for trial grounds. Every SEEDSMAN and FLORIST interested in DAHLIAS should send for our new descriptive Trade List.

W. P. PEACOCK, Atco, N. J.

SMILAX.

Good, strong plants, October sown, \$1.75 per hundred; \$15.00 per thousand.

Cash with order. Samples 10 cents.

CEO. MUNICH, Batavia, N. Y.

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No reduction made for large space.

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wares pertaining to those lines ONLY. Please to
remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure
insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

OBITUARY.

BRUCE FINDLAY.

Bruce Findlay, Curator of the Royal Botanic Gardens, Manchester, England, died June 16, aged 61. The news of his death will be received with deep and sincere regret; his name and fame were familiar in this country as in England, and there are many men in America, as in England and her colonies, who owe much of their gardening knowledge to him.

Mr. Findlay was of Scotch extraction, and was born at Streatham, Surrey, in 1835. He began his gardening career at Rollisson's Nurseries, going from there to Kew, Hull and Sheffield Botanic Gardens. In 1858 he was chosen Curator of the Manchester Botanic Gardens, where he served for 38 busy years. In 1881 the citizens of Manchester showed their appreciation of his services by presenting him with a check for £1,000 and a gold watch and chain, his wife being also presented with a gold watch and chain at the same time. In 1890 the Royal Horticultural Society presented him with the Veitch Memorial Medal for distinguished services to horticulture. His death is a very great loss to horticulture, and will be widely regretted.

THE International Horticultural Exhibition to be held in Hamburg in 1897 will last from May to October and thus give every branch of horticulture a chance to be represented at its best. A park in the center of the city has been placed at the disposal of the management and the citizens of Hamburg have provided a guarantee fund of \$125,000, in addition to donating many valuable special prizes. These specials are mainly for orchids, roses, rhododendrons, carnations and decorative plants. The steamship companies will make important concessions to foreign exhibitors.

Grand Rapids, Mich.

The Florists' Club met at the Eagle Hotel July 7; attendance good, Pres. Henry Smith in the chair. After routine business informal discussions were held on subjects pertaining to the trade. Where each member is expected to have a personal interest in the subjects treated this will hold a club together better than even learned essays read by the selected few, with now and then a social thrown in to liven up a bit.

Spring sales were reported as being larger than in former years, but at such cut rate prices as to leave little or no profit. The subject of a combine was discussed to maintain prices at living profit. Mr. W. B. Wiley of Douglas, a prominent fruit grower, talked against the practicability of a combine; the public became possessed of the idea that it was formed

for extortion, and it had a tendency to create dissatisfaction among customers. Rather put a man upon his honor to sell at a living profit; why cannot a florist see that cutting prices below cost is suicidal to the business.

The club held its second annual picnic at Reed's Lake June 23; 97 attended and all was lovely. An exciting game of base ball was played; the employers against the employed, won by a score of 12 to 11. J. A. Creelman was pitcher for the winning side, Geo. F. Crabb catcher. The president of the club, Henry Smith, was umpire. E. A.

A Bignonia Variation.

We have received from Mr. H. Brown, Richmond, Va., blooms of a bignonia originating with him. He informs us that the habit is like B. radicans, but the foliage is much lighter and finer cut. The flowers appear longer than B. radicans, color a deep chrome, the interior striped crimson, borne in ample clusters. Mr. Brown does not inform us of the parentage of his plant. Its appearance is suggestive of some of the South American varieties, and it will doubtless make a very showy plant.

SHELburne FALLS, MASS.—Lucius Fife is rebuilding and enlarging one of his greenhouses, making it 21x54. L. R. Fuller & Son are building a greenhouse 18x41.

COMPLETE LINE OF SUPPLIES
WIRE WORK
— WE MAKE IT —
IMPORTERS OF
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FINE STOCK
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FLORISTS**
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BRIDES,
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AZALEAS, the finest commercial varieties.
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NEW YORK, July 6.	
Roses, Beauty.....	2.00@20.00
" all other varieties.....	.50@ 4.00
Carnations, ordinary.....	.25@ .50
" fancy.....	.50@ 1.00
Sweet peas per 100 bunches.....	1.50@ 3.00
Valley.....	2.00@ 4.00
Harriell.....	4.00@ 6.00
Mignonette.....	.50@ 1.00
Adiantum.....	.75 @ 1.00
Asparagus.....	40.00@50.00
Smilax.....	8.00@10.00

BOSTON, July 6.	
Roses, Gontier, Niphetos.....	1.00@ 2.00
" Perle, Mornet.....	2.00@ 3.00
" Bride, Bridesmaid, Meteor.....	2.00@ 4.00
" Beauty.....	5.00@15.00
Carnations.....	.25@ .50
" fancy.....	.50@ 1.00
Valley.....	4.00
Longiflorum.....	6.00@10.00
Mignonette.....	.50@ 1.00
Sweet peas.....	.25@ .50
Adiantum.....	1.00
Smilax.....	10.00@12.00
Asparagus.....	50.00

PHILADELPHIA, July 6.	
Roses, Beauties long.....	10.00@16.00
" medium.....	8.00@15.00
" short.....	2.00@ 5.00
" Brides, Bridesmaid, La France etc.....	2.00@ 4.00
" Kaiserin.....	3.00@ 4.00
" small teas.....	1.00@ 2.00
Carnations, fancy.....	1.00
" first quality.....	.50@ .75
Sweet peas.....	.15@ .25
Smilax.....	15.00@20.00
Asparagus.....	35.00@50.00
Adiantum.....	1.00

CHICAGO, July 3.	
Roses, Beauties.....	8.00@20.00
" seconds.....	4.00@ 6.00
" Brides, Bridesmaid.....	1.00@ 3.00
" Meteors.....	3.00
" Perle, Wootton.....	2.00
" Testout.....	4.00
" Kaiserin.....	4.00
Carnations.....	.75@ 1.50
" fancy.....	1.50
Longiflorum.....	8.00
Auratum.....	8.00@15.00
Asters.....	.50@ 1.00
Sweet peas.....	.15@ .25
Coreopsis.....	.25
Gallardia.....	.25
Cornflowers.....	.25
Smilax.....	12.00@15.00
Adiantum.....	1.00

ST. LOUIS, July 8.	
Roses, Beauties, long.....	10.00
" short.....	4.00
" select stock.....	3.00
" general stock.....	1.00
Valley.....	1.00
Carnations.....	3.00
Cornflowers.....	.25
Daisies field.....	.15
Sweet peas.....	.25
Asters.....	1.00
Hollyhocks.....	.50
Gladiolus.....	3.00
Smilax.....	10.00@15.00
Ferns, Adiantum.....	1.00

GEORGE A. SUTHERLAND,
 Successor to PECK & SUTHERLAND,
 Successors to WM. J. STEWART.
Cut Flowers and Florists' Supplies
WHOLESALE.
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 49 WEST 28th STREET,
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**SPECIAL EXTRA STOCK OF
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 Grown particularly for summer trade.

**DISBUDED CARNATIONS.
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**WHOLESALE
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Roses shipped to all points. Price list on application.

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Careful Shipping to all parts of the country.
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The Seed Trade.**AMERICAN SEED TRADE ASSOCIATION.**

T. W. WOOD, Pres.; ALEX. RODGERS and J. B. RICE, Vice-Presidents; A. L. DON, 114 Chambers Street, New York, Sec'y and Treas.

M. E. FAGAN, ex-Chief Seed Division Dept. of Agriculture, is now in the Treasury Dept., and is now making a trip to Alaska.

THE prolonged drouth in France has certainly had the effect to reduce very generally the quantity of marketable sizes of Roman hyacinths, Paper White narcissus and such standard forcing kinds; undoubtedly the grades will be undersize this season, probably at least a centimeter. The bulbs may be hard and well seasoned and make up for this or may not; at any rate the American jobbers will likely have to take them as the Frenchmen see fit to send and be satisfied or fight. Too bad this stock cannot be so graded as to save trouble.

The N. B. G. Co. Stock.

Legal notice of proposed sale of the Northrup, Braslan, Goodwin Co. stock:

COPY OF ORDER OF SALE ENTERED JULY 8.—State of Illinois, County of Cook, ss: County court of Cook county. In re Northrup, Braslan, Goodwin Co., insolvent; William T. Fenton, assignee.

This matter having come on to be heard upon the petition of W. T. Fenton, assignee herein, asking for permission to sell the stock of seeds of the insolvent, situated in the city of Chicago and for directions of the court as to the manner of advertising and offering said stock for sale and the court being fully advised and informed.

It is now ordered, That the assignee forthwith advertise said stock of seeds for sale among such persons and corporations as are interested in the seed trade by circulating catalogues of said seed stock and by such other means as he may deem proper and that said advertisement of the sale of said stock shall call for bids for the same to be presented to the assignee in writing not later than Friday, July 17, 1896; that parties bidding for said stock may make an offer for the whole thereof in bulk or for such portion of the same as they desire; that is to say, for separate lots as designated in said catalogue; that all bids shall be accompanied by a certified check for 10 per cent. of the amount offered which in case the bid is accepted and approved by the court, shall apply on account of their purchase price but which shall be forfeited to the assignee in case such bid is accepted and allowed by the court and the bidder does not take the property thus bid for.

[Signed] O. N. CARTER, Judge.
Dated July 8, 1896.

Tree Planting Laws.

Is there any law in existence, state or municipal, in any of the states or cities in the United States, designating the distance varieties of large growing trees should be planted from dividing property lines in order to avert injuries thereby to adjoining land owners?

Any information from either a legal or scientific view will greatly oblige

READER.

Flower-Mission Drawbacks.

"Julia, what did that poor man say when you gave him that lovely bunch of daisies?"
"He said he would much rather have a good boiled cabbage."—*Chicago Record.*

Seedsmen Wanted.

WANTED—For a New England city, a competent man fully up in all branches of a first-class business. Must know flower, vegetable and farm seeds thoroughly, also catalogue work; must possess executive ability and push and know how to control.

ALSO WANTED a man fully conversant with flower seeds and capable of running that department. Also a man for vegetable seed department, who knows plants. Write full particulars, stating experience, salary expected, nationality, references, etc. All communications strictly confidential. Write to SEEDS, care J. M. Hilton, 39 S. Market St., Boston, Mass.

THE AMERICAN FLORIST COMPANY'S Directory OF FLORISTS, NURSEYRSMEN AND SEEDSMEN

— OF THE —
UNITED STATES AND CANADA,

REFERENCE BOOK, FOR 1896,

Contains the names and addresses of all the Florists, Nurserymen and Seedsmen in the United States and Canada, arranged alphabetically in States and Provinces, the exact branch of the business each is engaged in being indicated by a Key.

ALSO

A list of Trade Organizations, both National and Local, with names and addresses of principal officers, time and place of meetings and date of organization.

Statistics regarding Floriculture, the Nursery Industry and Seed Growing from the last U. S. Census report.

A list of firms in the trade that issue catalogues, with a key indicating the prominence of each branch of the trade in same.

A list of leading Cemeteries in which attention is paid to Ornamental Horticulture.

A list of leading Park Superintendents and of the Botanical Gardens of the United States.

Seasonable Hints for the year about the practical work of the Florist, written by Wm. Scott, giving instructions not only when to do certain work, but how to do it most effectively and economically.

A complete alphabetical list of Roses in commerce in America, brought up to date and of incalculable value for reference.

Similar lists of Chrysanthemums, Carnations and Cannas.

Historical sketches to date of the Society of American Florists, American Carnation Society, National Chrysanthemum Society of America, Florists' Hail Association, American Seed Trade Association and American Association of Nurserymen.

A list of Leading Horticultural Societies.

Full and accurate information about Express and Postage rates.

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Now is really the time to order.

Write at once to **JOSEPH DEFILIPPI, OLLIOULES, (Var), FRANCE.** who will mail you latest prices and special rates for wholesale. Samples free on request. English correspondence. No agent in America. MENTION THIS PAPER.

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German Pansy Seed.

PRICE LIST ON APPLICATION.

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**Japan Lilies,
Plants, Seeds
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Write for Catalogue.

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**E. G. HILL & CO.,
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RICHMOND, INDIANA.**

100,000 Strong Field-Grown ROSES

(Budded and own roots) for Fall delivery.

Try our new **BIOTA AUREA NANA.**

Thousands of **Olea Fragrans, Azaleas, Camellias and Magnolia Fuscata.**

Prices on application.

P. J. BERCKMANS, Augusta, Ga.

BULBS

For Fall Delivery.

Give us your wants, and will quote you price that will give you a living profit.

WM. ELLIOTT & SONS,
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**ZIRNGIEBEL'S GIANT MARKET
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PANSIES

are the Leading Strains up to date. Extra Large Size and Superb Colors. Liberal trade packets of either strain at **ONE DOLLAR EACH.** Separate colors if wanted in Blue, Black, White and Yellow.

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EXTRA PANSY SEED.

MAMMOTH SUNBEAM STRAIN.

A grand collection of plant flowering varieties, very large, of perfect form and choice colors; carefully selected and exceedingly fine. My customers write that this is the finest strain of pansies they can get; requires no better evidence of superiority. Every florist should sow of this improved strain. Trade pkt. 500 seeds, 25 cts.; 3 pkts. 100 cts.; 6 pkts. \$1.00. A pkt. of 500 seeds of the new giant yellow pansy will be added to every \$1.00 order.

JOHN F. RUPP, Shiremanstown, Pa.

C. H. JOOSTEN, Importer,
193 Greenwich Street, NEW YORK.

SPECIALTIES.

Bulbs, Azalea Indica, Palms, Roses,
and all kinds of Nursery and
Fruit Tree Stocks.

Catalogues on application.

... FOR THE ...
SEEDS Garden and Farm
Vegetable and Flower Seeds. All the newest and best varieties—quality unsurpassed. Illustrated Catalogue FREE.
WEBER & DON, Seed Merchants and Growers,
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	Per 100
Begonias in variety, 2½-inch pot plants	\$2.50
Chrysanthemums, 2½-inch pot plants	2.50
Marguerite Daisy, R. Cuttings, standard vars.	1.00
2½-inch plants	2.50
Glechoma Hederacea, R. Cuttings	.50
Verbena, best strain	.75
Vinca Variegata, R. Cuttings	1.00
Cuphea, Pilea, German Ivy, etc.	1.00
If to be sent by mail add 10c per 100.	Cash with order.

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Extra quality of **HIGH GRADE FORCING BULBS AT LOW PRICES.** We now book orders for **Azalea Indica, Palms, etc.** The largest collection of sundry bulbs and plants.

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Our superb mixture contains only the choicest fringed strains, and will give the greatest satisfaction. Trade pkt. 50c.

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Our strains are unsurpassed for richness of color as well as for size and perfection of form. Trade pkt. 50c.

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Agent for **LYSOL**, the ideal insecticide.

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WE ARE HEADQUARTERS ON BULBS FOR FORCING, FLOWER SEEDS FOR FLORISTS ENGLISH MUSHROOM SPAWN.

Special prices on application.

JOHN GARDINER & CO., Seedsmen,
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LILIUM HARRISII

NOW READY.

5-7 inch circum., per 100 \$2.00; per 1000 \$17.50

7-9 inch circum., per 100 \$4.00; per 1000 \$38.00

Best stock grown in Bermuda.

Prices on all other Bulbs on application.

HULSEBOSCH BROS., Englewood, N. J.

MY NEW PRICE LIST

of Hyacinths, Tulips, Lilies, Daffodils, Valley, Spiraea, Azaleas and other Forcing stock is now ready and may be had for the asking. Send for a copy.

G. C. WATSON,
43 North 10th St., PHILADELPHIA.

Pansy Seed.

The Cunningham strain of finest mixed, equal to any strain in America.

½ oz. \$2.00; 1 oz. \$4.00; 3 ozs. \$11.00.

CASH WITH ORDER.

JOS. H. CUNNINGHAM, Delaware, O.

Mention American Florist.

Pansies Worth Raising.

Everybody knows them. Everybody likes them. And they are sold by millions.

NEW SEED READY NOW— 1 ounce \$1.00; ½ ounce \$2.50; 1 pound \$50.00.

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C. SOLTAU & CO., 199 Grant Ave., Jersey City, N. Y.

CELERY

PLANTS. Strong and stocky, \$1.00 per 1000. Safe arrival guaranteed. Special low express rates.

Index of "How to Grow Celery Anywhere." Post free. Send for it.

PETER J. SCHUUR, Kalamazoo, Mich.

L. C. BOBBINK, Rutherford, N. J.
Branch of The Horticultural Co., Boskoop, Holland.
CLEMATIS, RHODODENDRONS, AZALEAS, MAGNOLIAS, BULBS, Etc., Etc.
Ask for prices.

PALM SEEDS

On hand in splendid condition.

	Per 100	Per 1000	Per 5000
Areca lutescens	\$1.50	\$10.00	\$47.50
Areca rubra	1.50	10.00	47.50
Geonoma gracilis	1.75	12.00	55.00
Geonoma Schottiana	1.75	12.50	60.00

Non germinating seeds will be replaced. Our Palm Growers' Guide free on application.

SCHWAKE SEED CO. (Inc.)

404 East 34th St., NEW YORK.

MUMS, ROSES, VIOLETS, SMILAX, DRACAENAS, CUT SMILAX.

	Per 100
2½-inch Mums Merry Monarch, Marquis de Montfort, Nemesis, Philadelphia, John H. Troy, Parker Jr. and Robinson	\$3.50
Marion Henderson, Eugene Dalledonze, Bonington, Helen Bloodgood, Yellow Queen, D. T. Murdoch, H. L. Sunderbruch, Ivory, Jerome Jones, Pres. Smith, Bergmann	3.00
Roses, La France, 3-inch	4.00
Brides, 3-inch	5.00
Brides and Bridesmaids, 2½-inch	3.00
California Violets, 3-inch	7.00
2½-inch	5.00
2½-inch Smilax	3.00
1500 fine Cut Smilax	\$2.00 per dozen; 18.00
Dracaenas, 4-inch, Australia and Indivisa	15.00

POEHLMANN BROS.,

MORTON GROVE, Cook Co., ILL.

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Our 1895 **PALM COLLECTIONS** are better than ever, and consist of 17 3 to 4-inch for \$3, or 34 for \$5; 10 4 and 5-inch Palms for \$3.50, or 20 for \$6.00; 6 6-inch Palms for \$5.00, all the best varieties.

ROSES—	Per 100
Monthly and Tea, best kinds, 2 inch	\$2.50
" " " 3 inch	5.00
" " our selection	4.50
Hybrid Perpetual, assorted kinds, 2-in	2.00
Crimson Rambler	10.00

FERNS—	
Adiantum Cuneatum, 3 and 4-inch, 16 & 10 00	
" Farleyense, 3-inch	25.00
" " 4-inch	50.00
" Capillus Veneris, 3-inch	5.00
Sword, 3-inch	5.00

LABELS, BOXES, MOSS, ETC.

Send for catalogue and samples.

WILLIAMS & SONS CO.,
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AZALEAS BEGONIAS GLOXINIAS

SPECIAL OFFER.

TOEFFAERT & GEE,
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PALMS, ARAUCARIAS, BAYS, & C

PRIMULA.

BEST SORTS, 2-inch pots. \$3.00

CINERARIA.

BEST MIXED SORTS, 2-inch pots. 2.00

C. LENGENFELDER,

Berteau and Western Avenue, CHICAGO.

SMILAX PLANTS.

A large stock, prices very low if ordered quick.

Sheep Manure & Moss

at a bargain.

WISCONSIN FLOWER EXCHANGE,
MILWAUKEE, WIS.

Paterson, N. J.

The decorations at the Beach-Muzzy marriage, which took place in this city on June 24, were the most elaborate seen here for a long time. The parlor in which the ceremony took place was decorated with asparagus and Jacq. roses; the hall was festooned with smilax and fine white flowers; the decorations of the library were in white and pink sweet peas; and the dining room was ornamented with white and yellow roses. A dancing pavilion had been constructed for the occasion, and the walls were almost entirely covered with flowers and foliage and studded with electric lights.

Pittston, Pa.

Mr. Ellis is removing his plant to corner of Montgomery and Wyoming aves. He has thus far complete three houses, one 100x18 and two 75x15. A handsome and commodious office adjoining the greenhouses is now in course of erection. The houses will be heated by steam, a twenty horse power boiler to be shortly placed in position.

Mr. Ellis contemplates enlarging his plant next spring, intending to build five additional houses. HOMO.

Greenhouse Building.

Riegelsville, N. J., John Stone, one commercial house.

Lewiston, Maine, Ernest Saunders, one rose house, 25x175.

Fairhaven, Mass., M. Conroy, one commercial house, 22x125.

Swansea, Mass., Leland Gardner & Sons, two commercial houses.

Braintree, Mass., Hayden & Bates, one rose house.

Highland, N. Y., Wm. Feeter, one greenhouse.

Avon, Mass., Thos. G. Thrasher, one conservatory.

Chester, Me., Mrs. J. E. Farnum, one conservatory.

Warning.

Messrs. Cole Bros., of Peoria, Ill., warn the trade against a man representing himself as George Cole, of Peoria Floral Co., and asking advances on trade plant orders. They say no such concern exists in Peoria. Messrs. Cole Bros. are exclusively cut flower growers.

* \$1000 REFUSED. *

A year ago we made an offer of \$1000 cash for **ONE PLANT** each of the **NEW SENSATIONAL CANNAS**

* ITALIA AND AUSTRIA. *

The offer was refused, a greater price being asked. To-day we have the stock and the plants are far better even than expected (see horticultural press), and the price now is **\$5 PER PLANT**; *
* **\$50 PER 12.**

NEW ASPARAGUS SPRENGERI, the best novelty for Florists' decorative purposes, \$1.50 per 12; \$10 per 100, from 2½-inch pots.

A. BLANC & CO., Philadelphia, Pa.

Vegetable Plants.

CABBAGE—Fiat Dutch and Drumhead, \$1.50 per 1000; \$5.00 per 5000.

CELERY—Golden Self Blanching, Pascal, White Plume, Pink Plume, Golden Heart, \$1.50 per 1000; \$5.00 per 5000.

CELERY—Transplanted, \$3.50 per 1000.

CASH PLEASE.

JNO. E. DeWALT, Box 82, Carlisle, Pa.

CHRYSANTHEMUMS.

EXTRA EARLY.

WHITE.	YELLOW.	PINK.
Lady Fitzwigram.....\$5 00	Marion Henderson.....\$3 00	Marquis de Montmort \$4.00
Merry Monarch..... 4.00	Yellow Queen..... 3 00	October Beauty..... 3 00

SECOND EARLY.

J. H. Troy..... 4.00	H. L. Sunderbruch..... 3.00	Her Majesty..... 3 00
Mrs. H. Robinson 5 00	Miss M. M. Johnson..... 4.00	Nemesis..... 4 00

MID-SEASON.

Mayflower 4.00	A. H. Fewkes 3 00	Harry Balsley..... 3.00
Mutual Friend..... 3.00	Georgiana Pitcher..... 4 00	Mrs. S. T. Murdock.... 4 00

LATE.

Mrs. Jerome Jones..... 3 00	H. W. Reiman..... 4 00	Maud Dean..... 3.00
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Above prices are for 100 plants, not less than 5 of a kind. Purchasers of 250 and over may deduct 50c. per 100 from these quotations.

In addition to the foregoing we have several thousand good sorts, in very best condition and in great variety. These we shall offer as long as stock lasts in 5, 10, 20 or 25 of a kind (to suit purchaser) at \$2.50 per 100, or 250 for \$5.00. Our selection.

NATHAN SMITH & SON, Adrian, Mich. EGYPTIAN AND AMERICAN LOTUS.

We have some excellent tubers of Nelumbium Speciosum and Nelumbium Luteum, which we offer in small or large quantities at lowest prices. Also several of the newer choice and scarce kinds. Now is the most favorable time to plant.

VICTORIA REGIA VAR. RANDI.

Our stock of this regal aquatic is unusually fine and can be recommended as the best for all purposes and localities, with or without artificial heat. We offer strong plants from \$5.00 each upward. Place orders now for immediate or future delivery.

HENRY A. DREER, 714 Chestnut Street, Philadelphia.

Herr's Pansies

My customers tell me are the **BEST STRAIN** grown either in this country or Europe.

Why bother with seed when you can buy plants of this strain any time after Sept. 1st.

\$5.00 per thousand; 75 cts. per hundred.

Write for circular. It will pay you to get acquainted with my Pansies and Rooted Cuttings

L. B. 496.

ALBERT M. HERR, LANCASTER, PA.



PALM
Seed. FRESH
ON HAND

	Per 100	Per 1000
Areca rubra.....	\$1.25	\$10.00
Cocos Weddelliana.....	1.50	12.50
Geonoma gracilis.....	1.50	12.50
Schottiana.....	1.50	12.50
Collea arabica (coffee tree).....	1.50	12.50

All Chamaerops, Phoenix and many others now in stock. A full list on application.

FOR AUGUST DELIVERY.

Kentia Belmoreana.....	\$1.25	\$10.00
Kentia Forsteriana.....	1.25	10.00

J. L. SCHILLER, Rutherford, N. J.
When writing mention the AMERICAN FLORIST

CARNATIONS

Orders solicited for **ROOTED CUTTINGS.**

KOHINOOR takes the lead.

Other Novelties of the Standard sorts at standard prices. All healthy and strong.

C. J. PENNOCK,
The Pines. **KENNETT SQUARE, Chester Co., PA.**
Mention American Florist

THE COTTAGE GARDENS,

C. W. WARD, Mgr. **QUEENS, L. I., N. Y.**

WHOLESALE SPECIALTIES:

*Carnations, Chrysanthemums,
Cannas, Geraniums.*

DO YOU WANT CARNATIONS?

If so, why not **GROW the BEST?**
50,000 ROOTED CUTTINGS, including Daybreak, Wm. Scott, Goldfinch, Lizzie Gilbert, Emily Pierson, Lizzie McGowan, Tidal Wave, S. Spray, Hulse's White, &c.
Can you do justice in quality and prices. Write me before you buy. Address **CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.**

CARNATIONS A SPECIALTY.

Rooted Cuttings. Young Plants. Field Grown Plants in season. Write for prices.

GEO. HANCOCK & SON, Grand Haven, Mich.

CARNATIONS.

F. DORNER & SONS CO.,
LA FAYETTE, IND.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

THE DIRECTORY

For 1896.

IS NOW READY.

Price \$2.00.

AMERICAN FLORIST CO.

NEW ROSE

"Mrs. PIERPONT MORGAN"

Listen for a moment to what a voice from far off Springfield, Illinois, has to say about our young stock of this rose:

May 4, 1896.
"EDWIN LONSDALE, Chestnut Hill, (Station H), Philadelphia, Pa.
"DEAR SIR: Box of 'Morgan' rose plants arrived Saturday in good shape. Fine Plants. I would like to know how you produce plants of such size in a two (2) inch pot?"

All I can say is that it is all owing to the natural vigor of the variety, and perhaps to some extent to the natural rose growing qualities of our soil.

We have a few more left of the same size. Order early or you may get left, for I do not know of a more profitable variety to grow for cut flowers than MRS. PIERPONT MORGAN.

Don't forget our address:

EDWIN LONSDALE, Station H,
Chestnut Hill, PHILADELPHIA, PA.

Young Rose Plants.

The following stock was grown for our own use and is guaranteed first-class in every respect:

1000 MRS. J. P. MORGAN, 2½-in. pots, 4c
400 BELLE SIEBRECHT, 2½-in. pots, 4c
1000 BRIDES, 2½-inch pots, 3c
1000 BRIDESMAIDS, 2½-inch pots, 3c

Also a few BRIDES and BRIDESMAIDS, in 3-inch pots, at low figures.

BASSETT & WASHBURN,
HINSDALE, ILL.

Rogers Park Floral Co.

GOOD FIRST CLASS STOCK.

	In 2½-inch pots	per 100	per 1000
Kaiserin Victoria.....	\$4 00		\$35 00
Belle Siebrecht.....	4 00		35 00
Bridesmaids.....	3 00		25 00
Brides.....	3 00		25 00
Meteors.....	3 00		25 00
Meteors, 4-inch pots.....	5 00		40 00

Orders for less than 100 not accepted.
Ready for shipment now.

Send Orders to 41 Wabash Ave., Chicago.

CHRYSANTHEMUMS.

All the choicest novelties and the cream of the standard varieties. A limited quantity of fine, healthy plants at reasonable prices. Let us know your wants.

Carnation plants all sold.

H. WEBER & SONS, Oakland, Md.

Siebrecht & Wadley's

PALMS, FERNS
AND ORCHIDS.

We give you good value for your money.

Rose Hill Nurseries, New Rochelle, N. Y.

A FINE LOT OF

Meteors,
and La France,

Now ready out of 3 or 4-inch pots. Write for sample and prices to

GEO. A. KUHL, Pekin, Ill.

ROSES.

FIRST-CLASS STOCK.

Meteors and Brides, 4-inch, \$6.00 per hundred.

CRABB & HUNTER, Grand Rapids, Mich.

ROSES FOR WINTER FORCING

ALL FIRST-CLASS, WELL CROWN STOCK.

2½-in. pots per 100.	STOCK:	3½-in. pots, per 100.
\$4.00.....	PERLE.....	\$10.00
4.00.....	BRIDE.....	10.00
4.00.....	BRIDESMAID.....	10.00
4.00.....	METEOR.....	10.00
4.00.....	LA FRANCE.....	10.00
4.00.....	GONTIER.....	10.00
4.00.....	DUCHESS OF ALBANY.....	10.00
5.00.....	SUNSET.....	11.00
6.00.....	KAISERIN.....	12.00
6.00.....	TESTOUT.....	12.00
6.00.....	SOUV. DE WOOTTON.....	12.00
8.00.....	AMERICAN BEAUTY.....	14.00
8.00.....	BELLE SIEBRECHT.....	14.00
8.00.....	MRS. PIERPONT MORGAN.....	14.00
4.00.....	CLOTHILDE & PINK SOUPERT.....	8.00

GREENHOUSES,
WESTERN SPRINGS, ILL.

VAUGHAN'S SEED STORE,

84 & 86 RANDOLPH STREET,
CHICAGO.

Roses, Roses & Roses.

All the best NEW and STANDARD varieties for winter forcing now ready in A1 stock, and of

MRS. PIERPONT MORGAN,

the most profitable known variety for forcing, and of the easiest possible culture I have a grand lot now ready. Write for special prices on this variety for large lots to

JOHN N. MAY, Summit, New Jersey.

30,000 FIRST QUALITY FORCING ROSES.

READY FOR IMMEDIATE PLANTING.

Fully equal to those sent the last four years, first-class and perfectly healthy in every respect. Only selected growth from flowering shoots used in propagating.

WOOTTON,	LA FRANCE,	BELLE SIEBRECHT,
3-inch pots, \$8.00 per 100.	4-inch pots, \$12.00 per 100.	

METEOR,	KAISERIN A. V.,	SUNSET,	RON SILENE,	HERMET,
BRIDESMAID,	GONTIER,	MME HOSTE,	NIPHETOS,	BRIDE,
	3 inch pots, \$7.00 per 100	4-inch pots, \$10.00 per 100.		

J. L. DILLON, Bloomsburg, Pa.

ROSES! ROSES!

BRIDES and BRIDESMAIDS

Good 4-inch stock, \$6.00 per hundred.

If you want them, speak quick.

G. R. GAUSE & CO., Richmond, Ind.

ROSES

BEAUTIES, MERMETS, CUSINS, TESTOUTS, NIPHETOS, PERLES, BRIDES, BRIDESMAIDS, METEOR, HOSTE, LA FRANCE, WOOTTON, WATTEVILLES, AUG. VICTORIA, 2 3 and 4-inch pot plants. Cash with order. Owing to number booked, they will be executed in rotation to assure prompt delivery. Order early.

Address for quotations, VILLA LORRAINE ROSERIES, MADISON, NEW JERSEY.

ROSES. NOW READY.

First-Class Stock, 2½ inch pots.

	Per 100	Per 1000
METEORS.....	\$2 50	\$20 00
BRIDES.....	2.50	20 00
BRIDESMAIDS.....	2.50	20 00

500 fine WOOTTONS, 3½ in 4.50

A. G. PRINCE & CO.,

88 Wabash Ave., CHICAGO.

When writing mention American Florist.

ROSES.

BRIDES, BRIDESMAIDS, MERMETS, KAISERIN and TESTOUT, \$3.00 per 100; \$25.00 per 1000.

LA FRANCE and BRIDES, 3 in. \$5 per 100; \$45 per 1000. 25 at 100, and 250 at 1000 rates.

R. F. TESSON,

West Forest Park, ST. LOUIS, MO.

FORCING ROSES. Good plants.

BRIDES, BRIDESMAIDS and PERLES. @ 2½ c's.

AMERICAN BEAUTIES, @ 5 cents

I. L. PILLSBURY, Calesburg, Ill.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

ROSES.

Good, strong 2½-inch stock.

	Per 100
MARY WASHINGTON.....	\$2 00
MRS. DEGRAU.....	2 00
GOLDEN GATE.....	2 50
MME. C. TESTOUT.....	3 00

CASH WITH ORDER.

NATIONAL PLANT CO., Dayton, O.

Mention American Florist.

SMILAX.

Strong plants from last fall, \$3.00 per 100

Young good plants..... 2.00 per 100

CLEMATIS.

A fine assortment for fall. Prices on application.

F. A. BALLER, Bloomington, Ill.

Mention American Florist.

MRS. PIERPONT MORGAN, Extra Fine Plants,

3 inch pots..... \$12.00 per 100

2½-inch pots..... 8.00 per 100

PAPA GONTIER, Strong Plants,

3 inch pots..... 5.00 per 100

THE FLORAL EXCHANGE, 614 Chestnut St., Phila.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns

Syracuse, N. Y.

July has come and with it a decided drop in the retail business; roses are getting scarce, but carnations are plentiful and of good quality for the time of year.

Most of the growers have their roses all planted, having a little earlier start than formerly. Kaiserin is gaining in favor here with everyone. At Marquisee's a bench of it did finely the past season, proving its constant blooming qualities, and as a keeper it cannot be equalled. The soil in this section seems to suit it. Rain is badly needed, outdoor stuff where it cannot be watered suffering badly from the long dry spell, although the carnations and violets are still holding their own in the field.

A Florists' Gun Club is being formed; quite a number of the boys are good shots, and under the management of our genial Harry Bellamy it should be a successful one.

A. D. Campbell, gardener for Major Davis, has gone to Scotland for a six weeks' vacation.

C. Barson, James J. Belden's gardener, is rejoicing over the safe arrival of a ten pound girl. ALPHIA.

Cincinnati.

There is little to say concerning the condition of business at present. Good stock is really scarce, and especially may that be said of roses. Some choice white asters are coming in from Gus Adrian, Clifton, which find a ready sale.

Mr. E. G. Gillett, for many years manager of the J. M. McCullough's cut flower department, severed his connection with this firm on July 1. Many of his friends and customers will be sorry to learn of his departure. Mr. and Mrs. Gillett left for Springfield, O., their former home, for a month's stay.

Mr. James Allen, foreman at Rosebank, returned from his six weeks' vacation east.

Remember the picnic day July 23.

H. SCHWARZ.

Columbus, O.

The Franklin Park Floral Co. has completed its new range of houses, and has them planted. They are putting in one house of Beauties.

Hatton Brothers are reported as doing a good business in their cut flower department, which they added to their business on the 21st of last March, with Mr. Karl Brown in charge, who had been with A. W. Livingston's Sons for five years previous.

Will Gravett of Gravett & Son, Lancaster, O., gave us a call recently. They are going to build a new carnation house this summer.

J. J. Brehmer of Circleville and Mrs. J. L. Miller of Newark were also recent visitors. Both report a good June business.

The Herms Floral Co. of Portsmouth have given up building their proposed new range of houses this summer.

B. K.

THE DIRECTORY

For 1896

IS NOW READY.

PRICE \$2.00.

American Florist Co.,

322 DEARBORN STREET, CHICAGO.



FANCY.

DAGGER.

NEW HARDY FERNS, 1896

Warranted First Quality.

PRICE REDUCED TO 75c PER 1000

FROM NOW UNTIL DECEMBER 1st.

Also Dealer in BOUQUET GREEN, SPHAGNUM MOSS, CHRISTMAS TREES, Etc., Etc.

L. B. BRAGUE, Hinsdale, Mass.

When writing mention the American Florist.

BOSTON FLORIST LETTER CO.,

13 Green St., BOSTON, MASS.

Office, 84 Hawley St.

Manufacture the Best Letters in the Market.

Sizes 1½-inch and 2-inch, \$2.00 per 100. Patent

fastener with each letter

With orders for 500 letters we give away a nicely stained and varnished box. See cut in next week's American Florist.

Our letter is handled by all the wholesalers in Boston. AGENTS: A. Rolker & Sons, New York; M. Rice & Co., 25 N. 4th Street, Philadelphia, Pa.; F. E. McAllister, 22 Dey St., N. Y.; H. Bayersdorfer & Co., Philadelphia, Pa.; A. D. Perry & Co., 33 Warren St., Syracuse, N. Y.; A. C. Kendall, 115 Ontario St., Cleveland, O.; E. H. Hunt, 79 Lake St., Chicago; Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.; H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.; T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.; Jas. Vick's Sons, Rochester, N. Y.; Dan'l B. Long, Buffalo, N. Y.; C. A. Kuehn, St. Louis, Mo.; Hunt-Ington Seed Co., Indianapolis, Ind.; W. Ellison, 1402 Pine Street, St. Louis, Mo.; A. Herrman, 415 E. 34th St., New York; Geo. A. Sutherland, 67 Bromfield St., Boston; Welch Bros., No. 1A Beacon St., Boston; N. F. McCarthy & Co., 34 Hawley Street, Boston; The Henry Phillips Seed and Implement Co., Toledo, O.; Walter A. Potter & Co., Providence, R. I.; J. C. Vaughan, 26 Barclay St., New York. J. A. Simmers, Toronto, Ont., Agent for Canada.

H. BAYERSDORFER & CO.,

WHOLESALE

FLORISTS' SUPPLIES ONLY,

58 N. 4th Street,

PHILADELPHIA, PA.

Our new Catalogue is now out, free upon application.

M. RICE & CO.

Importers and Manufacturers of

FLORISTS' SUPPLIES

25 N. FOURTH STREET,

PHILADELPHIA, PA.

Special price for your wants on application.

John Conley & Son,

Manufacturers of

TIN FOIL

2 AND 4 DOMINICK STREET,

New York.

TWO REMARKABLE BERRIES



STRAWBERRY-RASPBERRY,

LOGAN BERRY (Raspberry Blackberry)

We are headquarters for them. Also Golden Mayberry and Sacaline, home-grown plants. Bottom prices for gift edge stock.

THE LOVETT CO., Little Silver, N. J.

FANCY CALADIUMS

AT A BARGAIN.

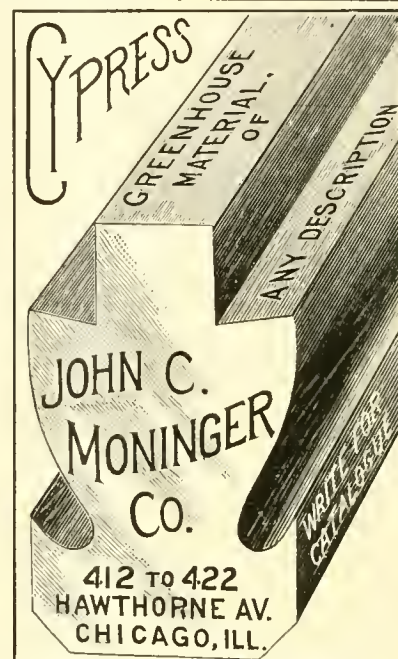
FANCY CALADIUMS, 2½-inch pots, assorted, \$5.00 to \$8.00 per 100.

Named kinds, \$6.00 to \$12.00 per 100.

The above is a bargain. Wish to sell several thousand to make room.

Address F. J. ULBRICHT, Florist,
L. B. 655. ANNISTON, ALA.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.



RAFFIA.

Direct from the packers.

AFRICAN FRENCH COLONIES.

Before buying elsewhere apply for quotations to

ANDRE L. CAUSSE,

105-107 Hudson St., NEW YORK CITY.

"ROSE LEAF"

Extract of Tobacco

INSECTICIDE!

PRICE: 1 gallon can, \$1.50; 5 gallon can, \$5.00. Applied either by vaporizing or by syringing. Try it.

LOUISVILLE SPIRIT CURED TOBACCO CO.,
LOUISVILLE, KY.

GLASS

which is absolutely perfect for modern greenhouse construction.

ROCK BOTTOM PRICES.

Send for Estimates. Satisfaction Guaranteed.

REED GLASS CO.,

102 South 5th Avenue. NEW YORK CITY.

TOBACCO DUST

\$3.00 A-BBL.
H. A. STOOFF.
315 MADISON AVE. NEW YORK CITY.

Prepare Advs. Now

FOR OUR

CONVENTION NUMBER

To be issued August 15.

THE ANNUAL CONVENTION NUMBER

— OF THE —
American Florist

WILL BE ISSUED

August 15.

In addition to the usual convention matter it will contain a series of elaborately and richly illustrated articles on the use of Hardy Plants, showing the Florist not only how to use these plants to the satisfaction of customers but how to make them a source of profit.~~~~~

This last should receive the earnest attention of the trade at this time, for the growing demand for Hardy Plants can not with wisdom be ignored. It should be met in such a way as to bring the most returns to the Florists' cash drawer. In our Convention Number we shall give the views of the ablest men in the trade on this subject and will include many illustrations that will be very useful to the *Florist* in presenting the subject of Hardy Plants intelligently and profitably to his customers.~~~~~

This issue will reach every possible trade buyer of consequence in America and will have great permanent value to the advertiser, but there will be no increase over our regular rates, which are~~~~~

FULL PAGE.....	\$42.00
HALF PAGE.....	21.00
QUARTER PAGE.....	10.50
FULL COLUMN.....	14.00
HALF COLUMN.....	7.00
ONE INCH.....	1.40

Subject to time discounts where advertiser has time contract with us.~~~~~

Send Orders EARLY so we may have abundant time to get them up in our best style.~~~~~

AMERICAN FLORIST CO.

322 Dearborn Street,

 **CHICAGO.**

News Notes.

ATLANTA, GA.—The Kensington Floral Co. will add two new greenhouses.

BARNEGAT, N. J.—Irving Predmore succeeds to Predmore Bros., dealers in moss and peat.

PONTIAC, ILL.—W. J. Miller is putting in a new boiler and making other needed improvements.

PUEBLO, COLO.—R. J. Graham retires from the firm of Wm. Brown & Co. The business will be continued by Wm. Brown.

INGERSOLL, ONT.—Thos. Sinclair & Son have sold their florist business here to Mrs. C. Kyle & Son, who will continue it in future.

EXETER, N. H.—Frederick C. Hoffman, a Pawtucket, R. I., florist, was married to Miss Harriet M. Weston of this place on June 24.

WARREN, O.—Geo. W. Gaskill is adding a 50-foot extension to his three houses, and one lean-to. Business is good here for the time of year.

HINGHAM MASS.—The Hingham Agricultural and Horticultural Society held its annual rose and strawberry exhibition at Agricultural Hall on June 24.

CLARKSVILLE, TENN.—The Evergreen Lodge Greenhouses are to be moved to a new location and many new houses built. Jas. L. Morton is manager and proprietor.

OTTUMWA, IA —Kemp & Zaring are erecting two new houses, one 20x60 and one 20x84, for carnations and roses, and are putting in a new 25 horse power boiler.

QUAKERTOWN, PA —Chas. E. Youaken, who has been carrying on a florist business in this place for a number of years, has sold out to E. I. Rawlings, a former employee.

DALTON, MASS.—Franklin B. B. Sears, florist of this town, and Miss Miriam A. Barton were married on June 24. The decorations of both church and house were very elaborate.

CHATTANOOGA, TENN.—The first board of park commissioners for this city has been organized, with Geo. M. Bradt as president. The first public park was formally dedicated July 4.

CLARKSVILLE, TENN.—Jas. L. Morton has secured a lease of the Evergreen Lodge Flower Garden, which he formerly managed for J. J. Crusman, assigned, and will continue the business on his own account.

MELROSE, MASS.—The Melrose Horticultural Society had a very attractive exhibition of fruit and roses on the afternoon and evening of June 22. This organization, although only a little more than a year old, numbers now about 75 members. Preparations are being made for an exhibition at the Town Hall in September next.

FLOWER POTS.

We Manufacture all kinds of Flower Pots, etc.
Making a Specialty of

Florist Standard Pots

Send for price list and samples (which will be sent free), and we know you will give us your order.

P. O. Box 78.
J. G. SWANN'S SONS, Minneapolis, Minn.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.



WIND MILLS FOR PUMPING.

FAIRBANKS—GALV'D STEEL.

ECLIPSE—WOOD.

50,000 Already Sold.

BOILERS FOR HEATING.

VALVES, PIPE AND FITTINGS.

FAIRBANKS, MORSE & CO.

Cor. Franklin & Monroe Sts., CHICAGO.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO.

NATURAL GAS MADE GLASS.

FOR GREENHOUSES.

Write for latest prices.

STANDARD FLOWER POTS.

Send for our new price list, with extra discounts. All of our Pots from 7-inch and upwards have our Patent Excelsior Bottom, which is a great advantage as it insures perfect drainage.

A FULL LINE OF BULB PANS.

THE WHILLDIN POTTERY COMPANY, 713 to 719 Wharton Street, Philadelphia, Pa.

BRANCH WAREHOUSES: { Kearney and Westside Aves., Jersey City, N. J.
{ Jackson Ave. and Pearson St., Long Island City, N. Y.

STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere. Our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.

We desire to announce the dissolution of the firm of Sipple Dopfel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopfel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

SYRACUSE POTTERY CO. OFFICE: 403 North Salina Street, SYRACUSE, N. Y.

THOS. W. WEATHERED'S SONS,
INCORPORATED.

Horticultural Architects and Hot Water Engineers

Send for Catalogue, enclosing 4 cents in stamps.

139, 141, 143 Center St., NEW YORK.

GLASS

For Greenhouses, Conservatories, Graperies, Hotbeds, and all other purposes, at Lowest Rates.

GLASS

N. COWEN'S SON, 392 & 394 W. Broadway, NEW YORK.

Get our Figures before buying Glass.

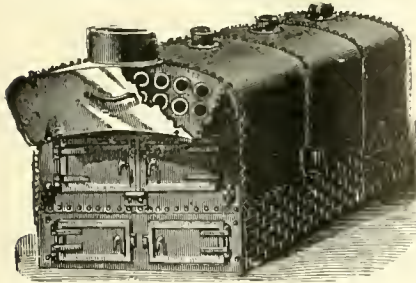
Estimates freely given.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

SAVE YOUR \$ \$ \$ by using our
HANDY SASH LIFTER.

For prices, apply to
GEO. W. HAMILTON, 176 Sidney St., Dorchester, Mass.

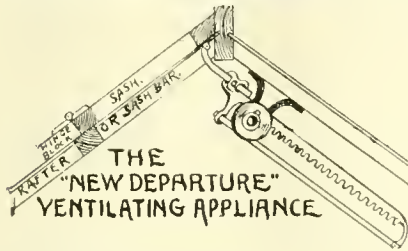
Kroeschell Bros. Co.
IMPROVED
Greenhouse : Boiler,
29 to 59 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back.) Write for information.

CYPRESS
IS MUCH MORE DURABLE THAN PINE.
CYPRESS SASH BARS
UP TO 32 FEET IN LENGTH OR LONGER.
GREENHOUSE
AND OTHER BUILDING MATERIAL.
Send for our Illustrated Book
"CYPRESS LUMBER AND ITS USES."
Send for our Special Greenhouse Circular.
THE A. T. Stearns Lumber Co.,
Neponset, Boston, Mass.

When writing mention the AMERICAN FLORIST



J. D. CARMODY, Evansville, Ind.
Dear Sir:—Enclosed find remittance for ventilating appliance. I find it the best, cheapest and easiest to work I ever handled—no exceptions whatever.
Yours truly,
J. E. JACKSON, Gainesville, Ga.

EVANS' IMPROVED
Challenge Ventilating Apparatus
Write for Illustrated Catalogue.
QUAKER CITY MACHINE WORKS,
Richmond, Ind.

IMPROVED GLAZING!
GASSER'S ZINC JOINTS

Makes a roof Air and Water Tight. No lapping. No breakage from frost or medium sized hail. Saves fuel.
GASSER'S IMPROVED PUTTY MACHINE—all metal.
Most practical and lasting Putty Machine in use. Price, \$2.00. Cash with order.
SEND FOR CIRCULAR.

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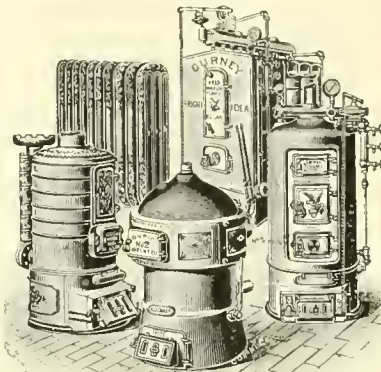


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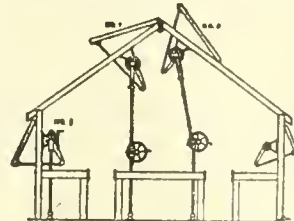
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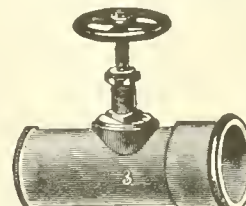
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ELGIN, ILL.—Florists Bach & Koebke, who not long since rented the greenhouses of C. H. Schlaack, have been closed by executions on judgments amounting to \$315.

HARTFORD, CONN.—The Connecticut Horticultural Society will hold a sweet pea show at Keney Hall on Wednesday, July 15.

NEW BEDFORD, MASS.—The greenhouses at 11 Florence street, formerly run by F. A. Soule, have been leased to W. G. Kraber.

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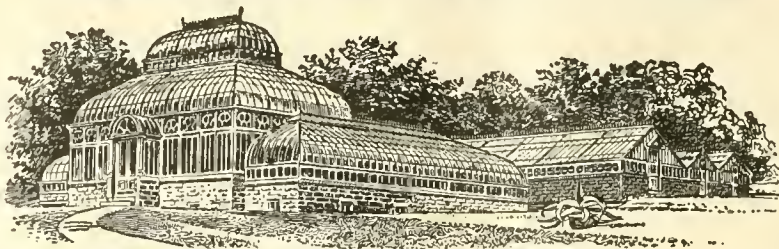
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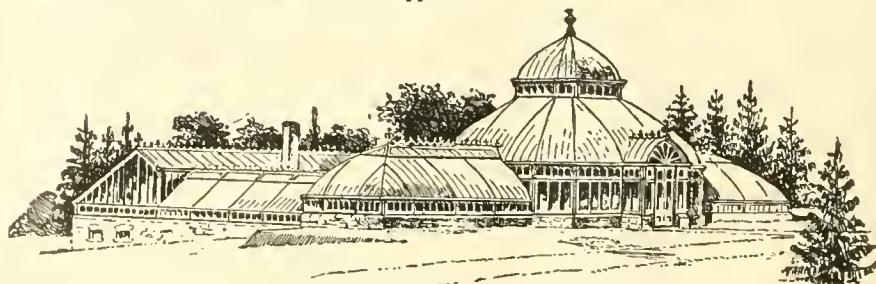
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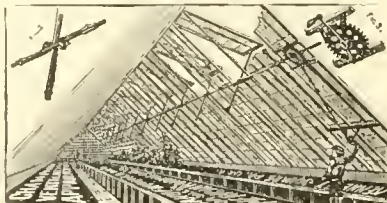
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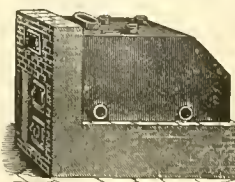


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Vol. XI.

CHICAGO AND NEW YORK, JULY 18, 1896.

No. 424

THE AMERICAN FLORIST

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SOCIETY OF AMERICAN FLORISTS.

WM. SCOTT, Buffalo, president; ADAM GRAHAM
Cleveland, O., vice-president; W. J. STEWART, Boston,
secretary; H. B. BEATTY, Oil City, Pa., treasurer.
The twelfth annual meeting will be held at Cleve-
land, O., August, 1896.

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Kew Gardens Herbarium.

Anyone wishing to know the name of
an unidentified plant may obtain the de-
sired information by applying to the
Royal Botanic Gardens at Kew, sending
seeds, plants or perfect dried specimens.
Such queries should be addressed to the
Herbarium, Botanic Gardens, Kew, Lon-
don W., England. No charge is made
for such information, but it would be
well to send 25 cents for postage, etc.

BALTIMORE, MD.—Wm. Fowler, lately
gardener at Clifton Park, is now with
Mr. Scott, florist, Lauraville, Harford
Road.

Why We Should Attend the Cleveland Convention.

Most florists endeavor to take from
their busy lives a week or two in mid-
summer for a much needed holiday.
Some can afford a longer period of recre-
ation than others, but few there are who
cannot afford a few days away from
home, especially in August. Now the
first duty of a live florist, be he big or
little, is to take part of his vacation in
attending the National Convention of the
Society of American Florists, which this
year is to be held in Cleveland, Ohio. The
selfish man stays at home and is too often
heard to say "What good will it do me
to attend the conventions? all that is
said or done of value will be published in
the trade journals." Yes, there is a whole
lot of you think that way; you are will-
ing to let other men spend their money
and contribute their knowledge, the
result of years of work and brains, while
you stop at home, a beneficiary of the
essays and debates, but not contributing
one cent to make the convention either a
financial or social success. Is this not a
purely selfish view to take of our conven-
tions? It must be evident even to the
most dull that without the annual gather-
ing the essays and papers would not be
read. Many, in fact the large majority
of the florists of the country, will remem-
ber how little those in the trade knew of
each other and what was the state of
trade before the organization of our
national society. If any of you will think
back twenty years you must remember
that you could count on your fingers the
firms that were known nationally, and
many did not know half that number.
The more than marvellous growth of our
business in the past 15 years in all large
communities and throughout the country
at large, a growth not equalled by any
similar industry, can be partly accounted
for by being in sympathy with the general
and wonderful growth and expansion of
all industries and the prosperity of the
country. But I beg to think and firmly
believe that a considerable part of it is to
be acknowledged as the fruits of our
national society and its offspring, the
local clubs.

It is impossible to believe that the won-
derful advancement of our business could
have attained the dimensions it has with-
out the impetus of the national Society of
American Florists. The society has been
the parent of our trade journals, of which
we have at least two, strictly confined to
trade interests, and which are a credit to
those who conduct them, and of the
greatest value to those who subscribe to
them. In them have appeared the best
knowledge of our brightest men, and to
those who read them they give a whole
year of good advice for the small sum of
one dollar.

I am aware there are many bright men

in the trade who have contributed but
little to the trade journals, but it is safe
to say that no florist who has made a
success of his business wishes to keep
back any knowledge from the rest of the
trade. Ours is not a secret business, no
more than that of the medical profession.
Those that think they have a wrinkle and
are going to guard it carefully will find
their time so much occupied that they will
be left behind in the procession.

I have already stated that to the S. A.
F. must be attributed largely the present
dimensions of the business throughout
the country, and this it would be hard to
contradict. The high toned retailer in
some large cities may possibly in his
ignorance have never heard of the S. A.
F. and does not know or think that it is
the grower who produces the fine stuff
that makes his business what it is. There
are, however, some noble exceptions to
this, for our members are made up from
every branch of the business, and the
most valuable and staunch members are
those who have no personal interests to
advance, but merely the general welfare
of the society and the business. Of the
ten men who have had the honor to be
president of the S. A. F. in its ten years of
existence I can point to none who have
sought or accepted that position at a
sacrifice of time and money for any
trade advantage that might accrue. They
filled the chair like the present incumbent,
purely for glory. The florists of the
country, even the most remote parts, have
been immensely benefited by the essays
and discussions that have taken place at
our conventions through the trade jour-
nals. The writer would like to confess,
and does most gladly, an illustration of
this in his own case, where most valuable
information was read on the platform at
the Chicago convention. The author
was Mr. Ernst Asmus, and he frankly
told all of us his way of forcing Dutch
and other bulbs, the varieties to grow,
etc. It was worth the expense of half a
dozen conventions to me, but this is only
one instance in a hundred, and I am only
one in a thousand who has been benefited
by the knowledge gratuitously imparted
to all those who have ears to hear. The
discussions are open to all. Anyone can
ask a question. This would be a good
opportunity for me to say that those
who fancy that our national society is
run or managed by a clique or inner circle
make a big mistake; no such thing exists.
I had the honor to be elected president of
the S. A. F. at Pittsburg last August
merely on my merits as a practical florist,
and while I know there are many of my
brother florists who can talk more under-
standingly about the general business in
which we are engaged and hundreds who
have larger places, there is none who will
strive harder to make our meeting an
unqualified success. Let every loyal flo-
rist who loves his business attend.

I find I have occupied a small space with my introductory remarks and have not yet given any specific reasons why if you have never attended a convention you should the one of this year. Without I trust encroaching on the province of our able Cleveland correspondent I would like to remind you that the Crescent City is a most cool and salubrious place to spend a week. To be national and suit both the east and west, where could you go? But Cleveland of this year has some attractions that Cleveland in its normal condition has not. It is the centennial of its birth, but there will be plenty of room for everybody. A feature in connection with our meeting will be a flower show on a grand scale, and it will be held in the new Armory, one of the finest buildings I have ever seen for the purpose. The S. A. F. has offered several prizes, but the local club has entire charge of the flower show, and there is no doubt it will be worth going hundreds of miles to see. No better opportunity was ever offered to trade exhibitors than they have this year. They will be given a portion of this grand building, and thousands will view their exhibits throughout the whole day. What is still of more importance and calling for a large attendance of those who have the welfare of our society at heart, is to hear and pass their opinion on the proposed new constitution and by-laws, which the executive committee have with much work drawn up, and which will be offered to the convention for its approval. A full text of the proposed constitution will be published in time for your complete digestion, and as many of the changes are of great importance a big vote should be there to approve or reject. Don't stop away and afterwards say they ought to have done so and so. In Cleveland will be the time to give your good advice, and it will be welcome. I am not at liberty to give you the text of all that is proposed, but here is a sample: If a local club, say Flatbush, L. I., for instance, has 25 members in good standing (as many more as you like) and they pay the S. A. F. one dollar for every member in good standing, that makes them members of the S. A. F. without any further payment to the national society, and many other matters of equal importance are embodied in the proposed constitution. Equally important will be the propositions in connection with auxiliary societies.

The program will be replete with new and practical subjects. The social part of the convention is not for me to speak about, but I will take the liberty of saying that for those who attend the convention largely for recreation there will be abundant opportunity to satisfy their tastes in that line, and rest assured our Cleveland friends know how to make you feel at home.

There was published last week in a trade journal some pessimistic trash which I will try and answer in its proper place. The writers of these articles must remember that we are not all alike, and that if the whole race was born in that effeminate way in which we were all intellect and a weak body the race would soon become extinct. It is false to say that the game of bowls or the shooting ever interfered with a business session of the convention; many delight and take pleasure in these innocent games, but they don't get an opportunity to compete in friendly rivalry with a brother florist from a distant town only once a year. And it's a remarkable fact that many of the brightest men who honor the profession are beautifully balanced. They can

be eminently successful in their chosen line, valued members of our society, and yet be broad enough to love a gun or take a hand at bowls or any other manly sport. If a man is physically debarred from any sport outside of an old women's tea party he has my sympathy, but when he is blessed with health and strength, and then has no sympathy with those who like a little sport he is mentally crooked and never will be missed. So friends, bring along your gun, your muscle for speed and skill on the alleys, and I am not afraid but what you will give your earnest attention and help to the primary object of our national society, the uplifting and advancement of our profession and of every individual connected with it, employe and employer.

WM. SCOTT, President of the S. A. F.

Reduced Rates to Cleveland.

All the railroads represented in the Trunk Line Passenger Committee, New England Passenger Committee and Eastern Committee of the Western Passenger Association have joined in the concession granted by the Central Passenger Committee for persons traveling from their territory to the Cleveland convention of the Society of American Florists. The rate granted over all the roads is on the basis of full fare going to Cleveland and one-third fare returning.

In order to take advantage of this reduced fare delegates must observe the following rules:

A certificate must be procured from the ticket agent at starting point, which when presented at the ticket office in Cleveland will entitle the holder to a return ticket at one-third fare.

The certificate must be obtained at time of purchase of going ticket. In no other way can the reduced fare be secured, and neglect of this rule cannot be afterwards remedied.

Certificates can be procured within three days before date of opening meeting, and will be available for return trip for three days after close of meeting (Sunday not counted).

To take advantage of this reduced rate persons must return by same route over which going journey was made, and no stop-over will be allowed on return trip.

Certificates may not be obtainable at all stations. Where ticket agent cannot furnish them passenger should pay local fare to nearest station where certificates can be procured, and on arriving there purchase ticket and certificate to Cleveland.

Certificates must be handed to the secretary on arrival at the convention, his signature on same being necessary before they can be used for return journey.

For further information address the secretary, Wm. J. Stewart, 67 Bromfield street, Boston, Mass.

Herbaceous Plant Notes.

A few days ago Mr. Shepard, superintendent of our famous Riverside Cemetery, while looking over the collection of hardy plants, stopped in front of a clump of *Eryngium* and in his enthusiastic manner exclaimed, "What a grand and magnificent effect could be produced with this plant in a shrubbery!" and undoubtedly Mr. Shepard is right; nobody will dispute his assertion. The steel blue tinge of flower stems and bracts, when seen against a background of yellowish green foliage as we have for instance in the golden elder, the dwarf yellow-leaved

philadelphus, the variegated dogwoods or other shrubs with similar light colored or variegated leaves, is delightfully pleasing to the eye and is clearly seen even at a distance. The *Eryngium*s are certainly a very ornamental class of plants, and most of them retain the beautiful tinge of blue until the fall months. Their leaves are broad and more or less serrated; the flower stems are branching and spring from the center of the crown, bearing numerous globose or elongated flower heads surrounded by lacerated, sometimes spinose, bracts, which along with the upper part of the stems, at first green, change in the different species to a more or less intense steel blue at the time of flowering, and retain this remarkable color until dry. The following varieties are all hardy and withstand our severest cold unprotected.

E. amethystinum, sometimes called *cœruleum* or *cœlestinum*, has long, broad, deeply cut leaves; a whitish nerve runs through the center; it flowers in large branchy corymbs on long stems, and fully one-half of the plant turns a glittering steel blue at the time of flowering. This is considered one of the finest species, and not only good in the border or shrubbery, but is used very largely in foliage beds of sub-tropical character, where the steel blue color is very effective among the dark bronzy foliage as well as in connection with the lighter and yellowish tints. It grows about 2½ feet high and begins to show its remarkable color in June. *E. glaciale* is rare and of very dwarf growth; 8 to 10 inches is its extreme height; the flower heads are of a whitish color and the surrounding bracts are hard and spiny. They turn a pale blue at the time of flowering.

E. Oliverianum is a robust and tall plant, perhaps too coarse to be used except in a wild part of the garden; the bracts surrounding the large flower heads are very stiff and thick, but the blue color of the upper part of the stem is very bright; the height is 6 to 8 feet. *E. maritimum* is another spring variety with broadly cordate leaves of glaucous whitish color; the flowers are pale blue and the bracts long and prominent; it does not change its color and only grows 15 to 20 inches high. Others of the same type are *E. spino-album* and *E. vulgare*. *E. multifidum* is very much like *E. amethystinum*, but perhaps a little weaker in growth. *E. planum* has the main or lower leaves entire, broad and undivided, while the upper ones are parted and deeply serrated. The bracts are narrow and well colored; it attains a height of about 2 feet. *E. giganteum* has large ovate leaves serrated along the edges; the branchy stem bears large heads of flowers, surrounded by spiny, leathery and hard bracts, nearly as long as the oval flower head; it grows about 4 feet high. *E. Burgati* has rough and spiny deeply cut leaves with a bluish white hue and distinct light nerves; the flower heads are white with a faint blue tinge. The bracts surrounding the head are stiff and spiny, thorned at the extreme point, and turn a beautiful whitish blue at flowering time; height of plant 15 to 20 inches.

E. alpinum is a rare species from the Swiss Alps, a curious and very neat plant with cordate undivided leaves, branchy flower stems and finely lacerated bracts; colors up as well as *E. amethystinum* and grows 2 to 3 feet high. It requires, however, a deep moist soil and protection from our burning sun. *E. aquaticum*, unlike the others, has narrow long strap-like leaves with light colored nerves running lengthwise through them; the bracts



TEN ACRES OF AZALEAS GHENT, BELGIUM.

are rather short, flowers very pale blue and the stems grow up $2\frac{1}{2}$ to 3 feet. *E. campestre* grows wild in Europe, and has rounded blue flower heads and divided leaves; the involucre formed by the bracts around the head is very long and pointed at the ends; height 18 inches or a little over. *E. creticum* shows a very distinct growth in its flower stem; it divides near the top into many branches and forms a spready and even surface, which may be compared to an open umbrella; these branches as well as the bracts turn a deep blue when maturing. The involucre is rather stiff and spioy; a rare variety which grows to a height of from 2 to $2\frac{1}{2}$ feet. In addition to the above there are a number of interesting species or varieties in cultivation, perhaps equal in value to some of those named here, but not having seen them for many years I do not distinctly recollect their habit of growth nor their coloring, and cannot describe them here, but I know that all the *eryngiums* are valuable plants either in the border or the shrubbery, and in beds when associated in the right way with corresponding and harmonizing foliage. When planted alone or in indifferent surroundings they may be interesting, but would not be called beautiful by a majority of people, still when introduced in the right place everybody must admire the effect produced by their remarkable color.

In the herbaceous garden we observe that the phloxes of the *decussata* section are several weeks ahead of their time this season, and the extremely dry weather would soon put an end to their flowering, but we took the precaution to cut back part of the plants early in June to stop their progress and force out young growth for later blooming.

The *centranthus*, dark carmine, pink and pure white, all are flowering well

and seem to enjoy the hot sun; their strong fleshy roots seek moisture far down below the surface. *Silene Schafta* is opening its pretty pink flowers and soon will form a pink carpet wherever it is massed closely together. To do its best a partial shaded position is required; here, by inserting a few loose or straggly growing taller plants here and there in the bed, we can bring about just the right condition for this elegant thing.

The pure white flowering *Monarda fistulosa alba* is a very desirable plant; although we may have a multitude of white flowers in the borders at the present time, it can be used in many ways to advantage, especially in damp and low places, where it grows most luxuriantly and blooms very freely. In growth and habit it is an exact counterpart of the well known *M. didyma*. *Calirrhoe involucrata* flowers freely on extremely dry and exposed banks; drouth does not affect it in the least when established; the long tap root is after moisture several feet below the surface and manages to support a dense and healthy foliage in spite of the dry surroundings.

Montbretias are not herbaceous plants, but being perfectly hardy can remain in the same spot for some years, and are in their place when planted between low growing compact plants such as the *arenarias*, dwarf phloxes, *Reseda glauca*, *Aster alpinus*, dwarf silenes, etc. We always have some in the borders and find them very handy for cutting during mid-summer.

J. B. KELLER.

Rochester, N. Y.

Hollyhock Fungus.

"I. E. B." asks what will cure or destroy the above. The disease is a fungus and is dignified with the name *Puccinia*

Malvacearum; one would think the name would kill such a small organism, but it seems not. In referring to Nicholson's "Dictionary of Gardening" the grand work that all florists ought to own, we glean the following: It was introduced to Europe in '72 and spread rapidly and first appeared dangerous to hollyhocks in '73, though specimens were found in Spain in 1869. "For a time it proved most destructive to hollyhocks, but as has occurred with other parasitic fungi its virulence has greatly abated in later years." So there is hope that this microscopic fungi will leave our stately hollyhocks alone. The above quoted author has the following as a cure, which is equivalent to saying, in case of a cholera or yellow fever epidemic, "Kill all those infected and destroy all the weak people who are likely to have it;" his cure is, "Destroy all leaves as soon as they show signs of being attacked, and to prevent the growth of the other food plants of the fungus in the neighborhood of the hollyhocks." In the summer of '72 I grew hollyhocks in Buffalo in rich and deep soil that I have never seen equalled either one or both sides of the Atlantic, but for many years since they have been a failure. It was, however, encouraging to see at our Botanic Gardens a few days ago some fine plants growing as of old, and Prof. Cowell says "The disease is no longer to be feared." WM. SCOTT.

Spiraea Astilboides.

Last spring I forced for Easter three hundred *Spiraea astilboides* and succeeded in getting about two hundred in flower in time. They were grown in 7 and 8-inch pots and found a ready sale at \$9 to \$12 per dozen, the remainder came in flower after Easter and were sold as cutflowers

at a fair price. In the same house *Spiraea japonica* and *S. multiflora compacta* came in flower in time under the same treatment. In forcing *Spiraea astiloides* it would be well to give it one week longer than the other varieties. It is a splendid variety; its habit is distinct from the other *spiraeas* in foliage, which is bold and of good texture, but the great advantage is its large trusses of flowers which are freely produced and carried at least 12 inches above the foliage, and in some cases where the plants were extra strong the flowers were 24 inches above the foliage. It will be a splendid plant to mix in with others in a decoration where the shorter varieties could not be seen unless elevated on a stand; the long sprays can be used also to a better advantage as cut flowers.

JAMES DEAN.



Diseased Carnations.

Enclosed a few samples of carnations. They are affected by some little insect smaller than red spider. I first noticed them on my carnations last fall during a drouth in July and August. They made their appearance this year in the latter part of May, and as we have had plenty of rain through June and up to date I have been expecting them to leave, but they are getting worse right along, so I concluded to write you for information. If you know what they are and the remedy I would be glad to hear from you through the FLORIST or otherwise.

Tennessee.

C. W. C.

I could not find any insects on the sample sprays, but found the same very badly infested with bacteria. The cramped twisted appearance of the leaves with the yellow spots so plainly visible when held against the light show the bacteria very plainly. The leaves often when badly infested show, besides being cramped and twisted, a brownish crust on the injured parts, as if done by insects; this may have given C. W. C. the impression, that it has been caused by insects. This is all the result of the ravages of the bacteria. When the growth is broken in one-half of the soft young leaf, and the other half keeps on growing around the injured spot, it will very naturally assume a crooked and twisted appearance, and when in the infested spots the cell walls and epidermis are destroyed it will assume a dry crusty look. There is nothing to do against this but to give the plants all possible care, assist them in a rapid, healthy growth. Do not let the ground become hard and baked, cultivate but not deeply, only to break the crust. On the other hand if wet leave your plants alone. The ground should only be worked when in the proper condition. If the ground has not been plentifully manured, if poor, give liquid manure. Any thing that circumstances and condition of plants and soil may suggest to assist in a fast healthy growth will diminish the bacteria.

It seems rather strange to me that at this time of the year in a favorable growing season bacteria should gain such a hold, and I feel quite sure these plants must have received a check from some cause or other, and if such should be the case what caused the check can only be

ascertained by C. W. C. himself. When more dry weather sets in, and the plants receive all the care indicated, a change for the better will soon be noticed.

We had to complain of the same trouble and I alluded to it in some of my notes. But our plants were infected with bacteria in the beginning of May, when they were not fully established in the field. We experienced at that time very warm weather, a humid atmosphere, and often warm rains. Our ground being in excellent condition, the plants soon outgrew the bacteria, and at the present time no bacteria can be found. FRED. DORNER.

Nitrate of Soda.

"M. A." wants to know "how to mix with soil and for water nitrate of soda for pot plants." The only safe way to use the above is in a liquid state. The writer has had actual and impressive experience with it used in its natural form; he once put about a peck of it on portions of a carnation bench, size 7x8 feet, soil 5 inches deep, and stirred it in, and then planted the carnations. It killed the whole lot; if there was a survival it was no doubt because the nitrate of soda was not evenly distributed. The only way to use nitrate of soda is in solution, 1 lb. to 30 gallons of water will hurt nothing and will help many plants. Its chief effect is to produce a deep color to both flower and foliage.

WM. SCOTT.



Growing Chrysanthemum Plants for the Market.

BY F. J. FILLMORE.

[Read before the St. Louis Florists' Club July 9.]

I usually pick out the best plants I have and keep them in a cool, light, airy situation, thereby encouraging a good sturdy growth. I put in the cuttings this year January 23, and after being thoroughly rooted potted them into 2½-inch pots and plunged them in a mild hotbed, giving all air possible and removing sash after they were thoroughly established, weather permitting. About the end of March I take off the tops and root them in the usual way, these cuttings making the best plants for 6 or 7-inch pots. I should have stated before that as soon as the first lot are well rooted in the 2½-inch pots they are shifted into 3½, keeping them continually growing. These first plants make specimens for exhibition and also extra large plants in 7, 8 and 9-inch pots. The young plants are kept potted on as fast as necessary, using for compost two-thirds rotted sod with one-third rotten manure. After leaving the 2½-inch pots bone meal is added, increasing the quantity at each repotting and potting moderately firm. I usually put in about one-half inch of charcoal at the bottom of the pots; this keeps the roots loose and sweet.

The plants are kept pinched back until about the 15th of July to 1st of August. About September 1, they are transferred to the houses, giving all the air possible night and day. If cool damp weather sets in a little heat is put on with some venti-

lation at night. After beginning to show buds they are fed with any good liquid manure, weak at first and increasing in strength at every application, usually applied about once a week until buds begin to open.

Disbudding is done to a certain extent, but plenty are left as you all know. St. Louis people in purchasing any plant invariably look for plenty of buds, and as a rule they sell much better than when disbudded so close. Good plants can be grown if rooted much later than the dates specified. Very little tying is done, using as few stakes as possible.

Now as to varieties. Of course dwarf growing ones are best for pot culture, and I think about the best are Ivory, Jessica, Fred Walz, Major Bonaffon, John E. Lager, Vivand-Morel, L. Canning, Gettysburg, Harry May, Falstaff, Miss K. Brown, H. L. Sunderbruch and Diana, the last named being largely used for cemetery purposes. There are a great many other varieties also suitable, but I think the ones that are mentioned are the cream of them all. I have also several new ones of this year's introduction, amongst them Miss A. L. Dalskov, the new pink Ivory. It grows just like Ivory, also Ivoire Rose, which grows just about the same.

To Harden Smilax.

"Miss Ida E. B." of Swampscott asks: "Just how should smilax be hardened? I have been troubled by long strings wilting even with the stems in water."

I have noticed a great difference in the keeping qualities of smilax; that grown in a very rich bed and cut prematurely will be sure to wilt. The usual process of hardening plants or flowers used for decorative purposes is to give them a lower temperature and more air, but this does not hold good with smilax. It will harden in heat as well as in a cooler temperature, but must be left to the proper stage. Smilax when healthy becomes a deep green in color, and it is then mature and will last either in water or out for several days. All retail florists know that in cases of emergency we have to use smilax for a decoration which should have been growing for a month longer, and you must expect a wilting to take place, but as it has not wilted much sooner than the guests and the bride and bridegroom no harm is done. I have several times in these columns given the advice that when cutting a bed of smilax begin at one end and cut clean through as you need it, then you can treat the bed as it needs it. If it has made all the growth you expect withhold water at the roots; that will help to harden it, but never let up on syringing, for red spider has not a sweeter spot to dwell in than the reverse side of the leaf of *Myrsiphyllum asparagoides*.

W. SCOTT.

San Francisco Sweet Pea Exhibition.

The third annual sweet pea exhibition of the California State Floral Society took place on July 10, in Maple Hall, Palace Hotel. The show was not as good as the two former displays of the society on account of the lateness of the season, which made it very hard for the growers to get blooms of the different varieties which were up to the required type and form. However considering the lateness in holding it, the blooms shown were very fine.

Mr. M. Lynch, the seed grower of Menlo Park, had the best display of blooms and also showed the largest collection, numbering some seventy distinct varieties.



BED OF TUBEROUS BEGONIAS. GHENT, BELGIUM

He showed the very latest of Eckford's introductions, also the introductions of several American houses. Had it not been so late in the season many other varieties would undoubtedly have been shown. He also showed his set of new varieties of his own raising. The gem of this set was the new grandiflora white, "The Bride," which we understand is to be introduced this year. It certainly is the finest white sweet pea we have seen here, and with its perfect germinating power will undoubtedly prove a great acquisition. A new salmon striped variety was also shown. This is a very striking novelty possessing the fine rounded or hooded form of the finest Eckfords. It is a selection from Mrs. Jos. Chamberlain and partakes of the size of that popular sort. It is destined to become a great favorite on account of the beautiful combination of color. A new seedling after the style of Apple Blossom was shown that attracted great attention. It is much larger than the above named variety and invariably grows four flowers to the stem. The wings are buff with a faint tinge of rose. The standard is a light rose. It presents a very handsome appearance. In form and texture it is all that could be desired. A pink variety was shown that became quite popular. It is of a Daybreak pink, the wings being a shade lighter than the standards. It has the fine hooded form and is a beautiful self color. It is a selection from Apple Blossom.

An object of interest was a very peculiar novelty which originated from the Princess of Wales. It is a semi-dwarf in habit and has the most peculiar foliage of any sweet pea that has come under my notice. The leaves are large and leathery and of great substance. It produces a seed pod about the size of a bush lima and the seeds are of enormous size. The blooms also are most peculiar; the standard is a semi-circle or more nearly a circle from the center of which protrude the wings.

They do not curve as in the ordinary sweet pea but protude out in a parallel line. It is a very queer departure from the ordinary sweet pea and one that will be watched with interest. The blooms are of immense size and of the same shading as the Princess of Wales from which it originated.

Eckford's '96 set of novelties has proved disappointing to our wholesale growers this year. Crown Jewel is the best of this year's set, and it is truly a beautiful thing. Little Dorrit we do not find any improvement over Blanche Ferry. His Captivation is rather an odd color but we have been roguing it out of Stanley for several years. Its form is very poor and it burns badly in our sun. The same may be said of Alice Eckford in regard to form and not being able to stand our hot sun. The flower is also small. Mikado is rather disappointing, as more than two-thirds of it run back to Ovid, and also to Mrs. Jos. Chamberlain. However it has a good form and substance and with a little careful selection it may become an established variety. Countess of Aberdeen is a very beautiful variety. This first year it does not come true but runs back to a pink variety. The beautiful pink edge it has makes it very desirable. The form is very good also and next season we hope to see this grand variety well established.

A beautiful bunch of Meteor in Mr. Lynch's exhibit was grown in the shade and held the delicate salmon colorings which makes it so attractive. I understand one of our growers has got the hooded form on Meteor, and also that when we get this fine form on one of Eckford's varieties that burn in our sun they hold their color much better and are less liable to burn.

The Sunset Seed and Plant Co. also made a display of some of Eckford's recent introductions and those of other growers.

C. C. Morse & Co. of Santa Clara unfortunately were unable to show, on account of their sweet peas all being out of bloom. A discussion was started and referred to the committee of awards that hereafter at the sweet pea show the society should try and encourage the growers in raising new varieties by offering some medal or certificate of merit for meritorious sorts. A very creditable display of gladiolus was made by the society, showing many new varieties which were greatly admired. Mrs. L. O. Hodgkins exhibited some handsome new cacti.

METEOR.

Extent of Pipe for Two Houses.

We intend building two greenhouses 20x100 and would like to know how many feet of pipe and how strong a boiler it would take to heat them easily. Is it better to heat four houses 20x100 with one boiler?

M. R.

Replying to the question of M. R. as to how many feet of pipe it will take to heat two greenhouses 20x100 each, in the locality where he is located I think it would not be safe to put less than nine ordinary cast iron pipes $3\frac{1}{4}$ to $3\frac{1}{2}$ inside bore for each house; the same to return across the ends to the doors farthest from the boiler, or if he prefer to use 2 inch gas pipe, then there should not be less than thirteen rows in each house. In either case it is better to have a little surplus heating surface, rather than trust to barely enough, and then have to fire hard in cold weather to maintain the desired temperature, as this always means burning fuel extravagantly.

As to the strength of the boiler required to heat two such houses it should be strong enough to stand at least 50 pound pressure of cold water, be perfectly tight and well made, with the metal of as nearly equal thickness as possible in all

parts, and should have a grate surface equal and proportional to the heating surface. A fairly safe estimate for a boiler to heat two such houses would be to have fully 7 feet 6 inches of grate surface with provision for good free draft to smoke stack. This insures a clear bright fire at all times that it may be required.

In answer to the last question (i. e.) if it is better to heat four houses 20x100 with one boiler, I should hardly risk it myself unless I had been first fully satisfied that the boiler was an exceptionally good one, well made and fully equal in every particular to do the work required of it. The greatest objection of one boiler for such an amount of glass is that if an accident should happen (and when it does it is invariably during the coldest weather) then the whole contents are at the mercy of the elements. This means a considerable sum of money. I should very much prefer to take two medium sized boilers rather than one large one; connect them so that in very mild weather one would circulate the water all that was needed, and use the two when needed in colder weather. By this means considerable saving of fuel can be made in early fall and spring months, and where two or more valves are put on the flow pipes on each house. This plan works even better than running two fires all the time. By this I mean that in reasonably mild weather when it is only necessary to raise the temperature in the houses a few degrees, one-third, or even less, of the pipes is all that is necessary to keep the water circulating through, and by shutting off the balance you avoid heating a large volume of water uselessly, thus saving fuel and labor both. In setting boiler, the mistake very often occurs in building too small a flue and not tall enough chimney. This is very poor economy, as extra draft has to be put on at the ash pit door to create the desired combustion, and this often drives a large portion of the heat into the chimney, where it does no good whatever, except to swell the amount of the coal bill and cause more labor in stoking, all of which means a shrinkage in the profits, which are none too much under most favorable conditions at the present time.

JOHN N. MAY.

New York.

At the wholesale cut flower establishments last week is declared to have been the deadest week ever experienced. The weather has been insufferably hot and the streets present a deserted appearance, for everybody who can get away is out of town. The hot weather has had the natural effect on the quality of stock coming in, much of it being very poor. Carnations are small, sweet peas flimsy and roses present a most emaciated appearance. Frank McMahon's roses are an exception to the general rule, Brides, Bridesmaids and Meteors from this place are the best coming to the city, with large full buds, strong stems and fine foliage.

Hulsebosch Bros. are sending in a wagon load of Harrisii lilies every morning. They bring from \$2 to \$3 a hundred, which pays much better than \$5 per hundred in winter. Bulbs from some of the Bermuda growers are late in arriving, the growers on the Island claiming that the bulbs are not sufficiently matured to give good satisfaction. The dealers who have not yet got their shipments are besieged daily by florists who have placed orders with them, all frantic because they fear they will not get their crop in early. A look over the market reports of last

season might cool their ardor somewhat. There were plenty of Harrisii in the market early last winter that did not realize any more money than Hulsebosch is getting out of his outdoor grown stock today.

Auratum lilies are very abundant at present. For a showy window decoration nothing equals these; they are exceedingly effective and cost but little and a good-sized vase of them fills up a store window sufficiently.

Sweet peas are still plentiful but showing the effects of the hot weather. Some stocks of Blanche Perry are coming in with the petals so striped and mottled that it is hardly possible to recognize the variety. The growers think that the seedsmen sold them spurious stock, but most likely the trouble lies in the fertilizer used.

The meeting of the N. Y. Gardeners' Society on Saturday evening was a very pleasant affair. About thirty-five gentlemen were present and there was a good display of flowers, notably Iris Kämpferi. The medals awarded by the N. Y. Florist Club at the recent exhibition were distributed to the winners.

The New York Florists' Club has through its committee on awards given a silver medal and three certificates of merit to W. A. Manda for new roses.

Julius Lang and family are spending the summer at Echo Lake.

A visitor this week, H. H. Battles, Philadelphia.

Buffalo.

There has been signs this few days past of an utter stagnation in business, and what else can be expected? Even the cheap bouquet that is carried to the cemetery is more often than not the produce of the home garden, for he who reveres his lost friend sincerely will most likely be of that good sort that will cultivate his small garden. Cowper said "He that loves a garden loves a greenhouse too," but grand English poet that he was I can see nothing in it. It is certainly not poetry but in Cowper's days greenhouses were not so plentiful and he did not have the inspiring influence of an acquaintance of some of our greenhouse men in West Hoboken. Buffalo is a city of homes and detached houses, and the very large majority have a chance if ever so limited to cultivate a few flowers, and although I don't *hardly* aspire to Cowper's genius I would amend him and say "When you see a man spending his leisure hours in his garden and keeping the same neat and tidy you can trust him for a shave or set of furniture." The style I have assumed is Browning, without attempt at rhyme.

Mr. Mepsted has resigned the presidency of our club, but his resignation has not yet been accepted. We expect a good meeting this week, for these is only one more before the convention. We expect a large delegation to go from here to Cleveland.

You have not heard a word of sport from this city in many months. The fact is we are demoralized, everybody is on the hunt for the necessities of life, and has no time for its trifles. There was a time when Buffalo had a bowling team (you would think so if you saw all the trophies in a heap). Where is that team? "Like the leaves of the forest all scattered and gone." We will try however to get a team together. If we had only practiced as has St. Louis we would expect to put up a game, still without much practice there are some dandies here at the sphere.

There is D. B. Long, C. F. Christensen, J. H. Rebstock, W. A. Adams, S. Anderson, W. Milley, J. Milley, E. I. Mepsted, G. Asmus, G. Eckhart, W. B. Scott, W. S., Wm. Kasting and Phillip Scott, and I almost forgot W. J. Palmer, Sr. In choosing a prize winning team the captain would most likely begun at the bottom and work upwards, but you can't tell. We have never met to roll a game since Pittsburg.

We have had several fine showers of late which has come to make hay cheap, but helps the florists greatly. Carnations in the field are looking fine, better I think than for several years. In another page you will find a few lines about the best road to Cleveland, that is for eastern men.

W. S.

Philadelphia.

The most prominent objects in the stores at present are the water cooler, the palm leaf fans, and the thermometer. Except for the flutter of the fans, the silent trickle of perspiration and the occasional visit to the thermometer and cooler all is as still as a graveyard. Early in the day a few of the commission hustlers and growers put in an appearance, and although almost invariably turned down they come around on the morrow with the same please-buy-something expression on their faces, that sometimes leads to a compassionate sale.

Two to three dollars is the price for the best teas. Testout is now the best pink and Kaiserin is easily leader among the whites. Sweet peas while fine are a drug and sell from 20 cents per hundred down.

The following clipping from a daily newspaper giving an account of some flowers sent to Mr. McKinley a few days ago reads thusly "And one massive jar of superb red roses was just unpacked, sent by a Philadelphia florist, asking that they might have the honor of being named the Mrs. McKinley as they were a new variety." Who is the "Philadelphia florist" who has this "superb red rose"? We miss a good thing occasionally and this has also escaped us. While Philadelphia florists have held their end up in producing good things they seem to have drawn the line at new roses. To be sure there has been a few "sports" notably, Butler's Climbing Wootton, Beavis' White Perle and Burton's American Belle, but nothing apparently to compare with the superb red of this new variety. Please let us pass judgment on a few of the flowers.

Edwin Lonsdale's new Beauty house is now completed and planted. There is but one bed, the side table spaces being utilized for walks composed of cement with a border of the same material, which on the side next the center of the house forms the edging for the rose bed and on the other keeps the water away from the frame work of the base of the house. In this way the best part of the space is occupied by the plants and in every other particular the arrangements seem to be complete.

Wm. Fox of John Burton's establishment was badly injured in a bicycle smashup one day last week. No bones were broken, but it will take him a week or two to get into his normal condition. The bicycle is increasing in popularity to a very great extent and is proving a useful adjunct to business.

George Kester of Cardington, Del. Co., is erecting a house 125x50. Carnations and violets are to be his specialty.

Samuel S. Pennock has returned with his new partner and is kept busy receiv-

ing congratulations. He is erecting a very pretty house in Lansdowne which is to be his future residence.

The gunners are still speaking enthusiastically of their Baltimore trip and of the hospitality of their friends in Maryland. It seemed a trifle greedy to take so many prizes, but it really seems as if our gunners couldn't miss them if they wanted to. At the club medal shoot last Saturday the trophy was won by John Burton with a score of 23 including a handicap of two. Messrs. Reed, Colfesh and George Craig were good seconds with 22 including handicaps. Anderson, the scratch man, made 21. K.

St. Louis.

The regular meeting of the Florists' Club was held Thursday afternoon, July 9, with President Fillmore in the chair. The attendance was good, the best for some time. After the regular routine of work the nomination of officers took place and resulted as follows: For president John W. Kunz, Dr. Halstedt, and Fred C. Weber. For vice-president Frank J. Fillmore. For secretary Emil Schray. For treasurer Robert F. Tesson and Julius J. Benecke. For three trustees Fred W. Ude, Charles A. Kuehn and E. W. Guy. This closed the nomination and the election will be held at the next meeting of the club on the second Thursday in August. The payment of dues will be in order at this meeting. President Fillmore then read his essay "How to grow chrysanthemum plants for the market," which was well received. The question box was then opened; one question was "How to increase the attendance at our meetings." After lengthy argument on this question the answer was that every member take upon himself to be present at all meetings of the club. The meeting then adjourned.

This week trade is extremely quiet; there is no shipping trade and local conditions are equally flat. The rose stock that comes in now is very good, and the average price is \$2 and occasionally \$3 for extra fine stock. Meteors are about the best sellers. Carnations have dropped some in price, 75 cents per 100, and 50 cents for medium grades. Sweet peas are down to 10 and 15 cents a hundred.

Gladiolus stalks are selling at 2 and 3 cents. Asters are still \$1 per hundred. Smilax seems to be plentiful and only brings 8 to 10 cents per string.

J. A. Evans of the Quaker City Machine Co., Richmond, Ind., was a visitor last week.

Chas. G. Fleckenstein has returned after a week's trip to Indiana.

J. M. Jordon has gone east for the summer and will be away until September 1.

The picnic committee held a meeting at Jordan's store Tuesday afternoon and decided to hold the picnic at Clifton Terrace on Saturday, July 25. The committee will visit Clifton Terrace Friday afternoon and make full arrangements. The subscription list has been placed in the hands of the commission men, who will take up the subscription, also orders for railroad tickets. By buying the tickets from the committee the price will be 60 cents a round trip; at the depot they will cost \$1. The programs will be out next week. A fine band for dancing has been engaged, also a band of jubilee singers for entertainment. The prize list for bowling, shooting, running and jumping and other games will be out next week and mailed to all florists.

The bowling Monday night was good and so was attendance. Mr. Evans of

Richmond, Ind., was among the boys and enjoyed the rolling very much. Fred Weber was high man in three games, 546. John Young, who has been absent for six weeks, was again on deck and came in second with 537, and John Kunz third, 494. John Young was high in single score, 232; Fred Weber second with 207. A bowling team for the convention is out of question, as not one has as yet expressed his intention of going. J. J. B.

San Francisco.

Business has been very poor indeed during the last couple of weeks. We seem to have an overstock of everything. Longiflorums of the outdoor crop have come in and swamped the market, but from present indications we shall not be likely to have many more lilies this season. Auratums have made their appearance but as a general rule are of very poor quality. Roses are meeting with very poor success, and immense quantities of them are consigned to the dumps daily. Another thing is that the quality of the roses is as a general rule very poor at this season of the year. We note some excellent Testouts in John H. Sievers' store, which came from his own greenhouses. The blooms were immense and the stems good and stiff. There are quite a few hydrangeas coming in just now which meet with a fairly good sale. Sweet peas, although they can be had in immense quantities, are still holding their own. Lady Penzance is still in the lead as the most popular sweet pea, and justly so, for no other variety possesses such a taking color, together with its fine size and improved form. As the sweet pea season is getting advanced with us now the stems are getting shorter. We note some very fine vases of the new white sweet pea "The Bride" in Pelicano's store on Kearney St. This seems to be what we are looking for in the way of a white seeded white. Carnations, especially Portias, can be had in any quantity and of very fine quality, also gladiolus are very plentiful, and although they are very fine they are not much sought after. Some excellent lily of the valley is to be had, which seems to be the only thing that there is a demand for. All the growers seem to be busy with their greenhouses at present; this is evident by the little we see of them every morning. Nearly all the outdoor plantings of chrysanthemums are over for the season. We also see the asters are making their appearance.

Mr. George Ernst has returned from the springs, after a stay of several weeks, very much improved in health.

Mr. John Carbone is at present busily engaged with replanting at his place at Berkeley. Mr. Carbone is well known as one of our best chrysanthemum growers. He is planting chiefly Philadelphia, Dailledouze, Major Bonnaillon and Mrs. E. G. Hill, which he thinks are about the best sorts that have come under his notice. He showed a very fine batch of young seedlings of his own raising, of which he expects good results this fall. His stock of roses is getting into condition for his winter's work. His stock consists of Bride, Bridesmaid, Testout and Perle.

Mr. Baldocchi of Podesta & Co. is back at his post again after a severe illness of several weeks' duration.

Mr. John Vallance of the Sunset Seed & Plant Co. is staying in Menlo Park for the summer months while he is looking over stock.

The Womans' Exchange, a sort of a co-operative flower store on Post St.,

which is supported by the wealthy class in particular, reports business as fairly good now, notwithstanding the poor reports of the florists. They do not handle any high class flowers, only whatever grade of flowers is contributed by the wealthy class.

Mr. James B. Kidd, representing the Sunset Seed & Plant Co. is on his annual eastern tour.

Mr. Andrew McDonald, lately with M. Lynch at Menlo Park, has resigned and has taken a position with Mr. C. A. Baldwin at Mountain View.

Mr. Sidney Clack, accompanied by his wife, left for a two weeks' vacation last week. Mr. Clack will visit all points of interest in the Northwest. Mr. Mitchell will be in charge during his absence.

The work on E. W. McClellan's greenhouses at Burlingame is progressing rapidly, and Mr. McClellan hopes to begin the planting of his stock in a few weeks.

The Hobart-Baldwin wedding on Tuesday was the swell event of the year and was also a banner day for the florists. It was a white wedding and M. Lynch of Menlo Park supplied the great bulk of flowers. An enormous quantity of sweet peas were used. Mr. Lynch supplied over 100,000 blooms of his new white sweet pea, "The Bride" and over 1,000 blooms of hydrangeas. The church decorations were all under the supervision of the Misses Worn of Post street. This firm also had the decoration for the breakfast and reception. The bride's bouquet was made of white orchids, which were supplied by John H. Sievers.

The conservatory at Golden Gate Park is proving a great source of pleasure to thousands of people daily. It is claimed that more people have visited this conservatory this year than any other park conservatory in this country. The palms and ferns are also in excellent condition and the orchids have been a great source of pleasure to many. Mr. John McLaren takes especial pride in his stock of these beautiful flowers. On the outside of the greenhouses are planted immense beds of yellow pansies, which presents a very striking appearance. Nearly all the bedding is now finished, also the chrysanthemums are planted, but the rabbits are proving such pests that it's doubtful if many will escape.

Mr. Lester L. Morse of C. C. Morse & Co. and Mr. James T. Lynch, representing M. Lynch spent several days inspecting seed crops in the vicinity of Gilroy and Santa Clara last week.

Mr. Waldo Rohnert, who has charge of the flower seed department of C. C. Morse at Gilroy reports that growing crops are all doing well except nasturtiums and Japanese morning glories, which were wiped out with the frost.

Recent visitors: C. C. Morse of Santa Clara, Chas. Navlet of San Jose, Cal.

METEOR.

Toronto.

The combined excursion of the Gardeners' and Florists' Association and the Horticultural Society on Wednesday, the 22d, to the Model Farm of the Ontario Government at Guelph promises to be a good thing and should be well attended. The president and the officials at the farm have kindly promised to do all in their power to entertain the visitors and to make things as interesting as possible for them. There is a great deal on the farm, horticultural as well as agricultural, which would be of great interest to any horticulturist, professional or amateur. A very low return fare (one dollar

for adults, children half price) has been secured from the Grand Trunk Railway. Train leaves Union Depot 7:40 a. m., returning from Guelph 5:40 or 9 p. m., tickets to be obtained of the secretary, Mr. Carter, at his house, 280 Gerrard street, or at the depot on the morning of the 22d. Might I with all due deference to everybody's feelings and opinions suggest that this be made a grand re-union day among the gardeners and florists? We are after all all trying to reach the same goal, although our ideas of the best way to get there may differ. There are many things, however, on which we can all agree; surely we can lay aside all differences for at least one day in the year and agree to have a jolly good time together. The cause appeals to all. Come to Guelph, and bring your wives and families and sweethearts.

Could not some of our country friends also manage to be at Guelph on the same day and join in the festivities? E.

Boston.

Market conditions continue as reported last week. With the exception of a little stray funeral work occasionally there is nothing going on, and a spell of very hot weather has debilitated the stock as well as its owners, so that the quality has fallen off decidedly. A few asters are beginning to show, but with this exception there is nothing new in the market.

The exhibition at Horticultural Hall on Saturday was not as full as usual and hollyhocks which should have half filled the hall were conspicuous by their absence. The hollyhock disease appears to have almost exterminated this grand old favorite in this vicinity. A plant of *Adamia versicolor* in a large tub, well covered with bloom, was shown by Mr. Martin and received the Appleton silver medal. Carl Blomberg showed some fine blooms of hardy nymphæas, among which *N. sulphurea* was especially well represented. There were interesting displays of hardy perennials from Rea Bros. and J. W. Manning, and large contributions of native flowers from several sources. Shirley poppies from W. H. Cowing were splendid.

A. H. Poppey has leased the greenhouses at Reading formerly conducted by Charles Ingram.

The army worm has approached dangerously near to Boston, and owners of gardens are beginning to feel anxious.

Mr. Mulhall, recently with Doogue & Co. and well known in the trade here for the past twenty years, is very low with consumption.

George Mullen's store on Park street has been closed up by his creditors.

P. Welch and Ed. Welch with their families are summering at Old Orchard beach. Visiting Boston, C. Mertz, representing Aug. Rhotert, N. Y.

Chicago.

Everything is very quiet here, trade conditions and prices being much the same as last week. Good stock in roses sells readily for \$2 to \$3, but naturally there is a good deal of very poor material. Sweet peas are still extremely plentiful and cheap, most of them being rather short-stemmed. Smilax is rather too plentiful, and sells for \$10 to \$12.50. Good asters are held at \$1, but a good many poor ones are seen. Golden rod is sent in, but does not sell. There is a good deal of out door stock in different lines. Funerals have been quite numerous of late, the intense heat increasing the death rate, and this is the only work the florists now have. The demand for Ameri-

can Beauties keeps up, however, and good flowers sell out clean.

Nothing further has been learned in the Mailander affair, and the present location of that gentleman is still unknown.

Emanuel Pieser of the Kennicott Company is now at Mackinaw, and intends making the circuit of the lakes before his return.

Mr. and Mrs. Washburn and party are now at Delavan, Wis., where they will be joined by Mrs. O. P. Bassett.

Things are very quiet among the local fraternity; we have not even the athletic diversions of some of the other cities excepting baseball, so it is hardly likely that the Chicagoans will be represented in the athletic contests at the convention.

Jerome B. Rice of Cambridge, N. Y., was in town this week.

Kennett Square, Pa.

J. M. Palmer is building an even span house 36x96 and expects to equip with a tubular boiler.

J. Walters' Sons are erecting a new house 20x100 for vegetables.

C. J. Pennock has commenced a carnation house 22x106.

Wm. Swayne will build one new house 20x100.

Field plants, carnations, are generally looking very well; continued showers have been beneficial. A few who were delayed in planting out have had losses from an early drouth. P.

Kentias.

Please say which is the taller growing of the two kentias, *Forsteriana* and *Belmoreana*. A. M.

Kentia Forsteriana is the taller growing variety of the two, and is also usually more upright in habit.

The leaves of *K. Belmoreana* are generally divided into a greater number of leaflets also, the latter being somewhat narrower than those of *K. Forsteriana*, and the whole plant is more graceful. W. H. TAPLIN.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By first-class rose, carnation, mums and all flower grower at once. GEORGE LINE, Ottumwa, Iowa.

SITUATION WANTED—By single young man to do general work, and assist florist. Address J. BARR, 307 E. King St., Lancaster, Pa.

SITUATION WANTED—In private or commercial place by experienced florist; single; 12 years' experience. JOHN L. HOGARTH, Mt. Washington, Md.

SITUATION WANTED—In greenhouse, by young man, single; 5 years' experience; prefer a place in or around Philadelphia. Address WALTER M. COOPER, West Grove, Pa.

SITUATION WANTED—By a first-class florist of 18 years' experience, as manager of small commercial or private place. Address C. KRIEGER, care W. Wieland, Avondale, Cincinnati, O.

SITUATION WANTED—To take charge, by a first-class grower of roses, carnations, mums, palms, ferns and general stock; forcing of bulbs, etc. Can give first-class references. Single. Address GROWER, 129 N. Clark St., Chicago.

SITUATION WANTED—By first-class florist, with best of references; thoroughly understands growing of roses, mums, carnations; can take full charge; sober and industrious. Correspondence solicited. D., care American Florist, Chicago.

SITUATION WANTED—As foreman or manager in a large commercial or private place, by a first-class grower of roses, carnations, mums, bulbs and general stock; 22 years' experience; age 35, married. Best of references. Address LOUIS BENKEI, 351 North 7th St., Philadelphia, Pa.

SITUATION WANTED—By practical florist and plantsman of experience, fully posted on all the requisites of commercial places, inside, outside, the nursery, general propagation, etc.; executive ability to attain satisfactory results. References to ability and good record. For particulars address PRACTICAL, care American Florist, Chicago.

WANTED—A competent florist and vegetable gardener. Married man without family preferred. Give references. Address M. D., care Am. Florist.

WANTED—An experienced florist, well acquainted with the trade and growing of fine stock, wishes to invest some capital in live business. Address TRADE, care American Florist.

WANTED—Young man that has some knowledge of roses and carnations for cut flowers. Address stating wages expected with board. COLE BROS., Box 577, Peoria, Ill.

WANTED—An all-around florist; single, sober, and not afraid to work. A steady place for the right man. Wages \$5.00 a week and board. Address G. L., care American Florist, Chicago.

WANTED—A first-class rose grower, one with long experience. Must have the best of references. Seven iron houses. Address A. K., care American Florist, Chicago.

WANTED—Man for greenhouse work; a young man 18 to 20 years of age with some knowledge of the business preferred. Address, stating experience, amount of wages desired, etc., HUNTSMAN & CO., 615 Race St., Cincinnati, O.

WANTED—A good florist, one who can grow roses, carnations, chrysanthemums and general stock of cut flowers and plants for retail store trade. Must be sober, honest and a good worker, and able to take charge of place. State wages with board. FRED J. KING, 220 Madison St., Ottawa, Ill.

WANTED—Good florist and gardener to take charge of Scotch gentleman's place. Grounds 3½ acres, garden 1 acre, greenhouse 8x20 feet. All help needed. Place is very quiet, and only suited to a settled man. Scotchman or Englishman preferred with good recommendations. Living cheap; climate splendid. A good house, firewood and \$40.00 monthly. Address B. J. FISHER, Ashboro, Randolph Co., N. C.

\$4,000—Wanted Partner to invest above amount for half interest in greenhouse business within 3 miles of Philadelphia, been established 30 years, plant contains 100,000 square feet of glass fully equipped for heating and watering. Excellent opportunity for party having above amount to invest in safe business. Experience not necessary. Good reasons for wanting partner. Best of references given and required. Address THEODORE WILES, N. Cramer Hill, N. J.

FOR SALE—At half price, three greenhouses, stock, boiler, pipes and everything belonging to it, if applied for soon. W. S. P., care American Florist.

FOR SALE—At great bargain, two greenhouses, at Eaton, O.; well stocked, and heated by boiler. Must be sold at once. J. H. FOOS, Eaton, O.

TO EXCHANGE—Stock plants of pelargoniums and 20 finest varieties of double petunias, for other plants. W. M. GOLDIE, 606 Green Street, Chicago.

FOR SALE—Four hot water boilers; will heat 30,000 square feet of glass. All less than price of one new. Address or call, BRANT & NOE, Forest Glen, Ill.

FOR SALE—Four greenhouse: two 11x75, one 11x75 one 22½x75, and two lots 100 feet front, 12½ feet deep, and a good stable. The houses are heated with hot water. Address R. L., care Am. Florist.

FOR SALE—A bargain; two greenhouses 100 ft. long, in Macomb, Ill., heated with hot water; hotbeds, sash, tools, wagons, two horses, a large stock of plants, a good established trade, in a good city; 3 years' lease on the ground free. Four acres of growing vegetables. All for \$1,500. I. L. PILLSBURY, Galesburg, Ill.

FOR SALE—Cheap and on time to suit, three small greenhouses to be removed. One 31x91; one 10x50; one 10x15 feet, all heated with Hitebings' 3-ft. hot water pipes and Devine Saddle Boilers; also patent ventilators. I will sell these for very little more than cost of taking down, provided they will be taken away before the 1st of September. Apply at Room 945 Rialto Building, Chicago, from 9:00 a. m. to 5:00 p. m.

POSITION WANTED.

As foreman and manager to take full charge of commercial establishment; is fully competent, sober and reliable, with many years' experience in the growing of roses, carnations, violets, palms and other florists' stock; married; age 30; has been foreman, having full charge in large place, for the past 5 years. For references and particulars address HANSEN, Box 382, Madison, N. J.

FOR SALE OR RENT.

Nine greenhouses, fully stocked; business established 14 years; good local trade; also a new brick office and salesroom, two-story brick dwelling and brick stable, about twenty blocks from the center of city; a most excellent opportunity. Call on or address JOHN WATSON, Jr., 715 Equitable Building, Baltimore, Md.

FOR SALE—Second-Hand Boilers.

- 2-60 H. P. TUBULAR BOILERS.
- 3-40 H. P. TUBULAR BOILERS.
- 1-25 H. P. TUBULAR BOILER.
- 2-25 H. P. LOCOMOTIVE BOILERS.

All the above are in first-class order, well adapted for greenhouse heating either steam or hot water. Will sell cheap.

CLEVELAND STEAM BOILER WORKS, Cleveland, O.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Pittsburg.

Business has been fair the past week for a mid-summer season trade, and all the florists express themselves as being satisfied with the amount done at this time. The club held a business meeting on July 9. After routine business had been attended to, a very full discussion as to the best means of preventing cutting in prices, etc., was engaged in and a committee is to be appointed to formulate some plan or method whereby more uniformity will obtain among the florists, they to report later on; as this will require a greatest of thought and work no time was set for the committee to report. The members are arranging, as many as can do so, to go to Cleveland next month in a body. Mr. Harry Balsley of the Detroit Flower Pot Co. and one of Detroit's park commissioners was a very welcome visitor. He extended a hearty invitation to the Club to visit Detroit after the adjournment of the S. A. F.; it is very probable that a goodly number of the members will accept his kind invitation.

John Bader, treasurer, was at the meeting looking and feeling much better after his trip to the springs in Michigan.

Wm. F. Lauch of Carrick, Pa., is erecting two new houses, one 210x40 feet for carnations, and one 150x23 feet for chrysanthemums. This will give him 8 houses altogether. He is also putting in a new tubular boiler 60 H. P. and a new boiler house. His place will soon be one of the most complete here.

Wm. Standing, Sharpsburg, Pa., also is putting up a couple of new houses 20x150 with new boiler, etc., and improving by grading, etc., the grounds. His business is greatly in plants; with these improvements he expects to be enabled to take care of this increasing business very easily.

E. H. Beaker, East End, Pittsburg, is home from a Chicago trip. He says he had a very enjoyable trip and he looks as if his vacation had agreed with him. He has some valuable information relative to limit of excursion ticket; brother florists can obtain it on application.

Mr. Theodore F. Beckert as well as his brother Albert, have the sympathy of their many friends, each having lost by death this week a child, and another one of T. F. Beckert's is reported as very low.

REGIA.

St. Paul.

Trade has settled down to the usual summer dullness; cut flowers are not very plentiful and the supply of roses and carnations is just about equal to the demand. Funeral work and weddings constitute the bulk of the trade, though sweet peas and other outside flowers find a market.

Fred Franke has built 3 nice houses and intends to grow roses and carnations for the trade.

The assignee of L. G. Venzke has paid a dividend of 6 per cent to the creditors, this being the total realized from the assets.

E. F. Lemke has gone to New York to meet his daughter, who has been studying music in Berlin.

FELIX.

DETROIT, MICH.—Stephen Taplin, has been called in by the Regents of the state university at Ann Arbor to give expert opinion on the condition of the trees, shrubs, etc., on the university grounds, and will have charge of an extensive course of pruning, replanting, etc., during the remainder of the season.

VAUGHAN'S INTERNATIONAL PANSY MIXTURE



THIS mixture is composed of the choicest selections from nineteen American and European Specialists in Fancy Pansy Seed-growing, and is unquestionably The Best General Mixture in Existence. This is the Pansy mixture for every Florist who would realize the highest prices for his flowers and plants. It contains the cream of the cream of every noted Pansy growers' product the whole world over.

The Pansies growing for this mixture have been repeatedly personally inspected by us in the fields and we thus became acquainted not only with the quality of the general assortment of each individual grower, but we also make selections of their choicest varieties. Thus it can be readily understood that we are in position to make up The Finest Combination of kinds in the world, and this we are doing each year with our "International Mixture." It contains, besides all the choicest German Pansies in their wide range of beautiful colorings, the Giant Sorts in variety, with

many Pink, Red, Chocolate, Slate and other Novel Shades. It contains all the separate colors of the Giant Trimardeaus with their immense flowers and rich colors. It contains the Giant Cassier and Bugnot strains, the product of celebrated Scotch strains, the Falaise and Boulogne Giants, in fact, there is no strain of any of the celebrated Pansy Specialists not represented in our INTERNATIONAL MIXTURE. Price, per oz \$10.00; ½ oz. \$5.00; ¼ oz. \$1.50; trade pkt. 50c. (Less 10 per cent. for cash.)

GIANT PANSIES.

Giant Trimardeau, white, large white with a violet center. Pkt. 25c; ¼ oz. 60c; oz. \$4.00.

Giant Beaconsfield, pkt. 25c; ¼ oz. 60c; oz. \$4.00.

GIANT TRIMARDEAU IMPROVED. This strain contains all the new colors of Trimardeau. Pkt. 25c; ¼ oz. 45c; oz. \$3.00.

GIANT CASSIER, a very choice variety of colors, each flower is marked with 3 or 5 blotches, pkt. 25c; ¼ oz. 75c; oz. \$5.00.

GIANT BUGNOT, the flowers are of enormous size, perfectly round, of great substance. Our "Bugnot" contains shades of red, bronze and reddish brown that are not found in any other mixture, pkt. 50c; ¼ oz. \$1.00; oz. \$6.00.

AURORA, a new, pure white giant, pkt. 50c.

GIANT GOLDEN QUEEN, new, golden yellow without any blotches, pkt. 50c.

Giant Paris Pansy Mixture.

The flowers of this strain are as large as the Trimardeau and far superior in color and in substance of petals; having a stout and stiff flower stem. Oz. \$4.00; ¼ oz. \$1.20; ¼ oz. 45c; pkt. 25c.

VAUGHAN'S GIANT PANSY MIXTURE.—This mixture comprises all the above strains and colors, and will give satisfaction to everyone whose trade demands Pansies with large flowers. Per oz. \$5.00; ¼ oz. \$1.35; trade pkt. 50c.

VAUGHAN'S PREMIUM PANSIES, MIXED.—Embracing many shades and colors. Pkt. 25c; ¼ oz. \$1.00; ¼ oz. \$3.25; oz. \$6.00.

CHICAGO PARKS BEDDING PANSIES.—Many colors mixed. 4 ozs. \$3.00; oz. \$1.00, ¼ oz. 30c; pkt. 10c. Write for list of separate colors.

Giant Auricula Colors, very beautiful, pkt. 25c.

Giant Violet Blue, pkt. 25c; ¼ oz. 50c.

Giant Yellow, Five Spotted, new, fine round flowers, pkt. 25c; ¼ oz. 45c.

Giant Hortensia Red, new same shade as Hydrangea, pkt. 25c; ¼ oz. 75c.

Giant Emperor William, ultramarine blue, pkt. 25c; ¼ oz. 60c; oz. \$4.00.

Giant Trimardeau, mixed, pkt. 10c; ¼ oz. 50c; oz. \$1.50.

Giant Striped, pkt. 25c; ¼ oz. 65c.

Giant Trimardeau, Yellow, very showy color, good seller, pkt. 25c; ¼ oz. 45c; oz. \$3.00.

Giant Trimardeau, Purple, flowers very large, pkt. 25c; ¼ oz. 45c; oz. \$3.00.

Giant Coal Black, pkt. 25c; ¼ oz. 60c; oz. \$4.00.

Giant Copper-Color, pkt. 25c.

Mammoth Butterfly Pansy.

A very distinct strain. The flowers are very large, of best form and substance. In coloring they are varied, seldom two alike in handed plants. Oz. \$3.00; ¼ oz. 85c; ¼ oz. 50c; pkt. 25c.

to per cent. Special Cash
Discount on orders
over \$2.00 for
FLOWER SEEDS if
the cash is enclosed.

NEW YORK: VAUGHAN'S SEED STORE, CHICAGO:
14 Barclay St. 84-86 Randolph St.

S. A. F. TRADE EXHIBITION,

CLEVELAND, O., AUGUST 18, 19 and 20, '96.

Your **BUSINESS** will improve as you make it easy for the **Trade** to examine and purchase your goods. **AN OPPORTUNITY.** Do not miss it.

For Trade Space apply to

E. H. CUSHMAN, Supt., Euclid, O.

SMILAX.

Good, strong plants, October sown. \$1.75 per hundred; \$15.00 per thousand.

Cash with order. Samples 10 cents.

CEO. MUNICH, Batavia, N. Y.

You will benefit The American Florist by mentioning it every time you write an advertiser in these columns

**PREPARE ADS. NOW
FOR OUR**

Convention Number

To be issued AUGUST 15.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.
Subscriptions accepted only from those
in the trade.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
wares pertaining to those lines ONLY. Please to
remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to se-
cure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

Cincinnati.

Business has been very dull the past
week all along the line; especially does
this apply to the flower market. Down
town florists receive an occasional funeral
order, about enough to keep them from
going to sleep.

It is rumored that Mr. Rob. Betz will
occupy the Cincinnati Floral Co.'s store
on Walnut St. the first part of September.
Mr. Gear bought out Mr. Meyer's store
on Vine and 15th Sts. Mr. W. C. Nolan
of Walnut Hills will soon leave for the
East; he intends to spend a couple of
weeks at Rockaway and Manhattan
Beach, Long Island. Thursday next, July
23, will be a gala day for the Cincinnati
Florists, this being the day for the third
annual outing. There will be an excu-
sion to Coney Island, where there will be
a bowling contest, ball game, quoits,
foot race, young ladies' race, girls' race,
sack race, boat race and donkey race.

The various committees in charge are
busy arranging suitable prizes. In the
bowling contest, the baseball contest,
and the quito contest, a cash prize of \$10
will be awarded to the winners. To the
winners of all the different races a suit-
able prize will also be awarded. The one
selling the most tickets for the occasion
will also be awarded a prize. From all
appearances the winner of the last will
be Mr. Wm. Murphy, who has up to date
sold about 300.

The committee extends a cordial invita-
tion to all florists far and near; they have
completed all arrangements and can guar-
antee a good time.

Committees of arrangements are earn-
estly requested to be on hand to take the
9 a. m. boat. Programs can be had at
H. L. Sunderbruch's. H. SCHWARZ.

Exhibition at Cleveland.

A copy of the printed premium list for
the "Cleveland Centennial Floral Exhi-
bition" to be held Aug. 18 to 20, during
the S. A. F. convention, has reached us.
In addition to the prizes offered by the
local club several valuable cash prizes are
offered by the S. A. F., and the society's
certificate of merit will be awarded for
the best collection of new and rare plants.
Aug. 19 there will be a competition in
floral arrangements. The list covers all
flowers of the season and the display will
undoubtedly be a most interesting addi-
tion to the usual trade exhibition. Copies
of the list may be had by addressing the
superintendent of the exhibition, Mr. E.
H. Cushman, Euclid, O.

When writing to any of the adver-
tisers on this page please mention the
American Florist.



FANCY.

DAGGER.

NEW HARDY FERNS, 1896 Warranted First Quality.

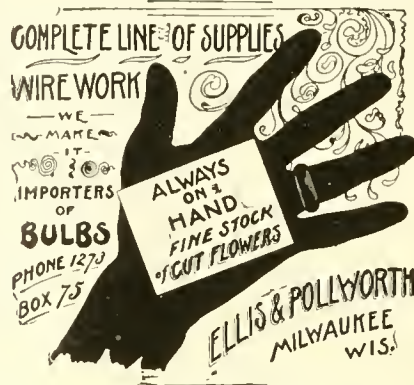
PRICE REDUCED TO 75c PER 1000

FROM NOW UNTIL DECEMBER 1st.

Also Dealer in BOUQUET GREEN, SPHAGNUM MOSS, CHRISTMAS TREES, Etc., Etc.

L. B. BRAGUE, Hinsdale, Mass.

When writing mention the American Florist.



**Prepare Advs. Now
FOR OUR
CONVENTION
NUMBER
TO BE ISSUED
AUGUST 15.**

NOTICE

— OF —

Stockholders' Meeting.

CHICAGO, July 16, 1896.

Stockholders of the American Florist Company:

You are hereby notified that the annual meet-
ing of the Stockholders of the American Florist
Company will be held in Parlor A, Hollenden
Hotel, Cleveland, O., Wednesday, August 19, 1896,
at 2 o'clock p. m., for the purpose of electing
directors and officers for the ensuing term, and for
the transaction of such other business as may
come before the meeting.

J. C. VAUGHAN, Pres.
G. L. GRANT, Sec'y.

AZALEAS, the finest commercial varieties.
PALMS, large, healthy stock, well grown.
ARAUCARIAS, from cuttings only.

BAY TREES, perfect shape, in all sizes.

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106 & 108 Liberty Street, NEW YORK.
SEND FOR SPECIAL OFFER.

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DIRECTORY
IS NOW READY.**

**BRILLIANT GREEN AND BRONZE
GALAX LEAVES,**
For Decorating and all Florists' Designs.
CHAS. H. RICKSECKER, Linville, Mitchell Co., N. C.

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JOEBERS IN
FLORISTS'
SUPPLIES.
FLORISTS'
VASES.

METS,
BRIDES,
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.

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BOSTON, MASS.

HORTICULTURAL AUCTIONEERS.

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Wholesale Florists,
NO. 2 BEACON STREET,
Near Tremont St., **BOSTON, MASS.**

Asparagus Plumosus Nanus.
Cut Strings, 8 to 10 feet long,
50 CENTS.

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A complete line of Wire Designs.

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FLOWERS AT WHOLESALE.
Strictly Commission Business.
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SEEDS, BULBS AND ALL
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DEALERS in CUT FLOWERS,
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 Our Roses best them all, in quality.
Headquarters for fine American Beauties.

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 Wire Designs a Specialty.
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ROGERS PARK FLORAL CO.,
 Wholesale Growers of
CUT FLOWERS,
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COMMISSION FLORISTS,
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 Consignments solicited. Prompt attention to all orders.

Prepare Advs. NOW
FOR OUR
Convention Number,
TO BE ISSUED
AUGUST 15.

Wholesale Markets.

Cut Flowers.

NEW YORK, July 13.	
Roses, Beauty.....	2.00@20.00
" all other varieties.....	.50@ 1.00
Carnations, ordinary.....	.25@ .50
" fancy.....	.50@ 1.00
Sweet peas per 100 bunches.....	1.50@ 3.00
Valley.....	2.00@ 3.00
Harrison, Auratum.....	2.00@ 3.00
Mignonette.....	.50@ 1.00
Adiantum.....	.75 @ 1.00
Asparagus.....	10.00@ 50.00
Smilax.....	8.00@ 10.00
BOSTON July 13.	
Roses, Gontier, Niphetos.....	1.00@ 2.00
" Perle, Mermel.....	2.00@ 3.00
" Bride, Bridesmaid, Meteor.....	2.00@ 4.00
" Beauty.....	5.00@ 15.00
Carnations.....	.25@ .50
" fancy.....	.50 @ 1.00
Valley.....	4.00 @ 1.00
Longiflorum.....	6.00@ 10.00
Mignonette.....	.50@ 1.00
Sweet peas.....	.25@ .50
Adiantum.....	1.00
Smilax.....	10.00@ 12.00
Asparagus.....	50.00
PHILADELPHIA July 13.	
Roses Beauties long.....	10.00@ 16.00
" medium.....	8.00@ 15.00
" short.....	2.00@ 5.00
" Brides, Bridesmaid, La France etc.....	2.00@ 4.00
" Kaiserin.....	3.00@ 4.00
" small teas.....	1.00@ 2.00
Carnations, fancy.....	1.00
" first quality.....	.50@ .75
Sweet peas.....	15.00@ 20.00
Smilax.....	35.00@ 50.00
Asparagus.....	1.00
Adiantum.....	1.00
CHICAGO, July 17.	
Roses, Beauties.....	8.00@ 20.00
" seconds.....	4.00@ 6.00
" Brides, Bridesmaid.....	1.00@ 3.00
" Meteors.....	3.00
" Perle, Wootton.....	2.00
" Testout.....	4.00
" Kaiserin.....	4.00
Carnations.....	.75@ 1.25
" fancy.....	1.50
Longiflorum.....	4.00@ 6.00
Auratum.....	6.00@ 10.00
Asters.....	.50@ 1.00
Sweet peas.....	.15@ .25
Coreopsis.....	.25
Galliardia.....	.25
Cornflowers.....	.25
Smilax.....	10.00@ 12.50
Adiantum.....	1.00
ST. LOUIS, July 16.	
Roses, Beauties, long.....	10.00
" short.....	4.00
" select stock.....	3.00
" general stock.....	1.00
Carnations.....	1.00
Valley.....	3.00
Cornflowers.....	.25
Daisies field.....	.15
Sweet peas.....	1.00
Asters.....	.50
Hollyhocks.....	3.00
Gladioli.....	10.00@ 15.00
Smilax.....	1.00
Ferns, Adiantum.....	1.00

GEORGE A. SUTHERLAND,
 Successor to PECK & SUTHERLAND,
 Successors to WM J. STEWART,
Cut Flowers & Florists' Supplies
WHOLESALE.
 67 Bromfield St., BOSTON, MASS.
 New England Agent for the GREAT ANTIPEST.

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THE
AMERICAN
FLORIST
EVERY TIME
YOU WRITE
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ADVERTISER.

John I. Raynor,
 49 WEST 28th STREET,
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SPECIAL EXTRA STOCK OF
AM. BEAUTY, METEOR,
BRIDESMAID, BRIDE.
 Grown particularly for summer trade.

DISBUDED CARNATIONS.
FANCY GRADE.

CUT FLOWERS.
SELECTED STOCK
— AND —

NOVELTIES.
THOS. YOUNG, Jr.,
 49 W. 28TH ST., NEW YORK.

WALTER F. SHERIDAN,
WHOLESALE
FLORIST,
 39 West 28th Street, NEW YORK.

Roses shipped to all points. Price list on application.

Edward C. Horan,
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WHOLESALE • FLORIST.

Careful Shipping to all parts of the country.
 Price list on application.

Purdy & Blauvelt,
WHOLESALE DEALERS IN
CUT FLOWERS,
 57 W. 30th St., NEW YORK.

Good Flowers
ARE HARD TO GET
IN MID-SUMMER.
FOR CHOICE STOCK SEND TO
JOHN YOUNG,
 51 W. 28TH STREET, NEW YORK.

FRANK MILLANG,
CUT FLOWERS,
WHOLESALE, COMMISSION,
 408 E. 34th Street,
 Cut Flower Exchange, NEW YORK.

JULIUS LANG,
 Commission Dealer in Cut Flowers,
WHOLESALE,
 53 West 30th St., NEW YORK CITY.

MILLANG & CO.,
WHOLESALE FLORISTS,
 501 Sixth Avenue,
 CORNER 30TH ST., NEW YORK.
 Consignments Solicited.

Re Seed Trade.

AMERICAN SEED TRADE ASSOCIATION.

T. W. WOOD, Pres.; ALEX. RODGERS and J. B. Rice, Vice-Presidents; A. L. DON, 114 Chambers Street, New York, Sec'y and Treas.

FRENCH growers report pansy seed a short crop.

S. Y. HAINES is again at the baths in Mt. Clemens, Mich.

C. MERTZ is traveling for Aug. Rhotert and is now in Boston.

VISITED CHICAGO: Jerome B. Rice, E. S. Wetherly of Sioux City.

THE proposed sale of the stock of the N. B. G. Co. set for July 17 has been postponed for one week.

MR. E. SCHAEFFEL, of Vilmorin Andrieux & Co., will arrive in New York July 19 on the S. S. LaGascogne.

MR. LEM W. BOWEN returned from Paris July 11. He reports crops on the other side all right and an average yield except perhaps some varieties of turnip.

BOSTON.—James F. M. and John K. M. L. Farquhar formerly of the firm of R. & J. Farquhar & Co., have formed a partnership with the name of Farquhar Bros. and will open about September 1st at 17 Merchants Row. Mr. John Farquhar sailed for Europe per steamer Gallia on Saturday, July 11, to select stock.

Want Assignment Set Aside.

A petition was filed in the County court to-day to set aside the assignment of the Northrup, Braslan, Goodwin company. The latter is the large seed firm of Minneapolis and Chicago which made an assignment in May last. The petitioners are Howcroft & Watkins, who have a judgment against the seed company for \$1,670.

The petition sets up that the assignment of the assets of the company in this state to William T. Fenton is void for the reason that the company through its directors had already made an assignment of all its property to Elbridge C. Cooke at Minneapolis. The petitioners declare that the assignment in this county was unauthorized and the company having handed over all its property to Cooke had nothing more to assign. They ask that the assignment be declared void and that Fenton be ordered to deliver the property in his possession to a receiver to be appointed by the Circuit court. The assignee was ordered to answer the petition in five days—*Chicago News July 17.*

Catalogues Received.

Quaker City Machine Co., Richmond, Ind., ventilating apparatus; L' Horticulture Internationale, Brussels, Belgium, orchids and new plants; Mexican Plant Co., Maravatio, Mexico, bulbs, orchids and cactus; Giblin & Co., Utica, N. Y., heating apparatus.



TWO REMARKABLE BERRIES.
STRAWBERRY-RASPBERRY,
LOGAN BERRY (*Raspberry-Blackberry*)
We are headquarters for them. Also Golden Mayberry and Sacaline, home-grown plants. Bottom prices for gilt edge stock.

THE LOVETT CO., Little Silver, N. J.

THE AMERICAN FLORIST COMPANY'S Directory OF FLORISTS, NURSEYR MEN AND SEEDSMEN

— OF THE —
UNITED STATES AND CANADA,
— AND —
REFERENCE BOOK,
FOR 1896,

Contains the names and addresses of all the Florists, Nurserymen and Seedsmen in the United States and Canada, arranged alphabetically in States and Provinces, the exact branch of the business each is engaged in being indicated by a Key.

ALSO

A list of Trade Organizations, both National and Local, with names and addresses of principal officers, time and place of meetings and date of organization.

Statistics regarding Floriculture, the Nursery Industry and Seed Growing from the last U. S. Census report.

A list of firms in the trade that issue catalogues, with a key indicating the prominence of each branch of the trade in same.

A list of leading Cemeteries in which attention is paid to Ornamental Horticulture.

A list of leading Park Superintendents and of the Botanical Gardens of the United States.

Seasonable Hints for the year about the practical work of the Florist, written by Wm. Scott, giving instructions not only when to do certain work, but how to do it most effectively and economically.

A complete alphabetical list of Roses in commerce in America, brought up to date and of incalculable value for reference.

Similar lists of Chrysanthemums, Carnations and Cannas.

Historical sketches to date of the Society of American Florists, American Carnation Society, National Chrysanthemum Society of America, Florists' Hail Association, American Seed Trade Association and American Association of Nurserymen.

A list of Leading Horticultural Societies.

Full and accurate information about Express and Postage rates.

PRICE \$2.00.

AMERICAN FLORIST CO., 322 DEARBORN ST., CHICAGO.



TRY DREER'S

GARDEN SEEDS,
Plants, Bulbs & Requisites.

They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

HENRY A. DREER,
Philadelphia, Pa.

Planting Stock

ROSES,
FERNs,
SMILAX.
German Pansy Seed.

PRICE LIST ON APPLICATION.

DAN'L B. LONG, Jobbing
Florist,

BUFFALO, N. Y.



PALMS
AND
FERNs.

The LARGEST STOCK west of New York.

GEO. WITTBOLD, 1708 N. Halsted St., CHICAGO

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We devote our whole attention to

DAHLIAS

and not only have the LARGEST and BEST collection in America, but guarantee our stock true to name. We are now filling orders for trial grounds. Every SEEDSMAN and FLORIST interested in DAHLIAS should send for our new descriptive Trade List.

W. P. PEACOCK Atco, N. J.

CAMPHOR TREES.

(Laurus Camphorus.)

For the Southern States there is no Evergreen Ornamental Tree to equal it in beauty of foliage or outline of shape.

Young plants from 3 to 4 inches high, out of 1½-in. pots, at \$20.00 per thousand, by

R. MAITRE,

7444 St. Charles Ave., NEW ORLEANS.

E. G. HILL & CO.,
Wholesale Florists
RICHMOND, INDIANA.

100,000 Strong Field-Grown ROSES

(Budded and own roots) for Fall delivery.

Try our new BIOTA AUREA NANA.

Thousands of Olea Fragrans, Azaleas, Camellias and Magnolia Fuscata.

Prices on application.

P. J. BERCKMANS, Augusta, Ga.

TOBACCO DUST \$3.00 A BBL.
H. A. STOOHOFF.
315 MADISON AVE. NEW YORK CITY.

Always mention the American Florist when writing to advertisers.

BULBS

For Fall Delivery.

Give us your wants, and will quote you price that will give you a living profit.

WM. ELLIOTT & SONS,
—NEW YORK.

Mention American Florist.

**ZIRNGIEBEL'S GIANT MARKET
AND GIANT FANCY**

PANSIES

are the Leading Strains up to date. Extra Large Size and Suberb Colors. Liberal trade packets of either strain at **ONE DOLLAR EACH.** Separate colors if wanted in Blue, Black, White and Yellow.

DENYS ZIRNGIEBEL,
NEEDHAM, MASS.

Mention American Florist

Roemer's Superb Prize Pansies.

The finest strain of Pansies in the World.

Introducer and Grower of all the leading Novelties.

Catalogue free on application.

FRED ROEMER, SEED GROWER,
Quedlinburg, Germany.

C. H. JOOSTEN, Importer,
193 Greenwich Street, NEW YORK.

SPECIALTIES.

Bulbs, Azalea Indica, Palms, Roses,
and all kinds of Nursery and
Fruit Tree Stocks.

Catalogues on application.

SEEDS ... FOR THE ... Garden and Farm

Vegetable and Flower Seeds. All the newest and best varieties—quality unsurpassed, Illustrated Catalogue **FREE.**

WEBER & DON, Seed Merchants and Growers,
114 Chambers St., New York City.

EXTRA PANSY SEED. MAMMOTH SUNBEAM STRAIN.

A grand collection of giant flowering varieties, very large, of perfect form and choice colors; carefully selected and exceedingly fine. My customers write that this is the finest strain of pansies they can get; requires no better evidence of superiority. Every florist should sow of this improved strain.

Trade pkt., 500 seeds, 25 cts.; 3 pkts. 10 cts.; 6 pkts. \$1.00. A pkt. of 500 seeds of the new giant yellow pansy will be added to every \$1.00 order.

JOHN F. RUPP, Shiremanstown, Pa.

**PREPARE ADVS.
NOW
FOR OUR**

CONVENTION NUMBER

TO BE ISSUED

AUGUST 15.

VAN ZANTEN BROTHERS, Hillegom, Holland.

Extra quality of **HIGH GRADE FORCING BULBS AT LOW PRICES.** We now book orders for **Azalea Indica, Palms, etc.** The largest collection of sundry bulbs and plants.

APPLY FOR WHOLESALE CATALOGUE.

PRIMULA SEED.

This Year's Crop. Now Ready.

Our superb mixture contains only the choicest fringed strains, and will give the greatest satisfaction. Trade pkt. 50c.

Cineraria Seed.

Our strains are unsurpassed for richness of color as well as for size and perfection of form. Trade pkt. 50c.

HERRMANN'S SEED STORE,

413 E. 34TH STREET,

Near Long Island Ferry, **NEW YORK.**

Agent for **LYSOL**, the ideal insecticide.

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**WE ARE HEADQUARTERS ON
BULBS FOR FORCING,
FLOWER SEEDS FOR FLORISTS
ENGLISH MUSHROOM SPAWN.**

Special prices on application.

JOHN GARDINER & CO., Seedsmen,
631 Market St., Philadelphia, Pa.

LILIUM HARRISII

NOW READY.

5-7 inch circum., per 100 \$2.00; per 1000 \$17.50

7-9 inch circum., per 100 \$4.00; per 1000 \$38 00

Best stock grown in Bermuda.

Prices on all other Bulbs on application.

HULSEBOSCH BROS., Englewood, N. J.

MY NEW PRICE LIST

of Hyacinths, Tulips, Lilies, Daffodils, Valley, Spiraea, Azaleas and other Forcing stock is now ready and may be had for the asking. Send for a copy.

G. C. WATSON.

43 North 10th St., **PHILADELPHIA.**

Pansy Seed.

The Cunningham strain of finest mixed, equal to any strain in America.

½ oz. \$2.00; 1 oz. \$4.00; 3 ozs. \$11.00.

CASH WITH ORDER.

JOS. H. CUNNINGHAM, Delaware, O.

Mention American Florist

Pansies Worth Raising.

Everybody knows them. Everybody likes them. And they are sold by millions.

NEW SEED READY NOW—½ ounce \$1.00; ½ ounce \$2.50; 1 pound \$50.00.

CASH WITH ORDER.

C. SOLTAU & CO., 199 Grant Ave., Jersey City, N. Y.

CELERY

PLANTS. Strong and

stocky, \$1.00 per 1000.

Safe arrival guaranteed.

Special low express rates.

Index of "How to Grow Celery Anywhere."

Post free. Send for it

PETER J. SCHUUR, Kalamazoo, Mich.

L. C. BOBBINK, Rutherford, N. J.

Branch of The Horticultural Co. Boskoop, Holland.

CLEMATIS, RHODODENDRONS, AZA-

LEAS, MAGNOLIAS, BULBS, Etc., Etc.

Ask for prices.

PALM SEEDS

On hand in splendid condition.

	Per 100	Per 1000	Per 5000
Areca lutescens	\$1.50	\$10 00	\$47.50
Areca rubra	1.50	10.00	47.50
Geonoma gracilis	1.75	12.00	55.00
Geonoma Schofteana	1.75	12.50	60.00

Non germinating seeds will be replaced.

Our Palm Growers' Guide free on application.

SCHWAKE SEED CO. (Inc.)

404 East 34th St., **NEW YORK.**

MUMS, ROSES, VIOLETS, SMILAX, DRACAENAS, CUT SMILAX.

	Per 100
2½-Inch Mums Merry Monarch, Marquis de Montmort, Nemesls, Philadelphia, John H. Troy, Parker Jr. and Robinson	\$3.50
Marion Henderson, Eugene Dalledouze, Bonnyton, Helen Bloodgood, Yellow Queen, D. T. Murdoch, H. L. Sunderbruch, Ivory, Jerome Jones, Pres Smith, Bergmann	3.00
Roses, La France, 3-Inch	4.00
Brides, 3-Inch	5.00
Brides and Bridesmaids, 2½-Inch	3.00
California Violets, 3-Inch	7.00
2½-Inch	5.00
2½-Inch Smilax	3.00
1500 fine Cut Smilax	\$2.00 per dozen; 18 00
Dracaenas, 4-Inch, Australia and India	15 00

POEHLMANN BROS.,

MORTON GROVE, Cook Co., ILL.

Mention American Florist.

PANSY X SEED.

The Jennings strain of finest American grown Pansy Seed. New crop ready June 15th. The grandest combination of colors ever sent out.

The largest flowering.

The strongest growing.

and the most beautiful colors in great variety.

Very finest mixed:

Pkt. of 2500 seeds, \$1.00; ½ oz. \$3.00; 1 oz. \$6.00; 3 ozs. \$15.00. White and yellow in separate pkts., same as above. Half pkts. 50 cts.

CASH WITH ORDER.

E. B. JENNINGS, L. B. 254, Southport, Conn.

Grower of the finest Pansies

Columbia Farm Offers

30,000 5 to 7 and 7 to 9 inch **LONGIFLORUM** bulbs.

10,000 9 to 11 inch **HARRISII** bulbs

2,000 11 inch and up **HARRISII** bulbs

20,000 **FREESIA** bulbs, ¼ to ½-inch in diameter.

AMARYLLIS JOHNSONII; **OXALIS ROSEA**;

GLADIOLUS SHAKESPEARE. Apply at once.

R. H. JAMES, St. Georges, Bermuda.

Mention American Florist

AZALEAS BEGONIAS GLOXINIAS

SPECIAL OFFER.

TOEFFAERT & GEE,

Cendbrugge-lez-Cand,

BELGIUM,

and 36 Catharine Street,

Liverpool, England.

PALMS, ARAUCARIAS, BAYS, &c

Mention American Florist

PRIMULA.

BEST SORTS, 2-inch pots. Per 100 \$3.00

CINERARIA.

BEST MIXED SORTS, 2-inch pots. 2.00

C. LENGENFELDER,

Berleau and Western Avenue, **CHICAGO.**

Syracuse, N. Y.

At the meeting of the Central N. Y. Horticultural Society the reports from different counties for the fruit outlook seemed very discouraging, apples being the only fruit reported fair, with quinces a complete failure, the trees having been killed in many places to the roots last winter. Messrs. Smiley & Ham gave some valuable information on their method of protecting berry bushes, which was to lay the canes down in late fall and cover with three inches of soil. Mr. Smiley made a test last season with two rows of the thimbleberry; the one that was treated as above being now loaded with fruit, while the other which had only a light straw protection has no fruit to speak of and its growth is scrubby. One of the members gave an account of how J. Elletson of Auburn blooms his callas ten months in the year, his plan being to plunge out in open frames in early summer the plants that have been grown all winter, care being taken to tie up the old leaves, as that is where a good many of the first flowers come from; in fall they are housed as usual and continue blooming all winter, the only period of transition in their growth being for the first four or five weeks they are put into the open air. They are only potted once in three years and have liberal doses of manure water.

Some of the florists report a good trade in funeral work the past week, but white flowers are very scarce. A fine flowered plant of *Dendrobium suavisimum* was noticed in Quinlan's store window and attracted much attention. Since the last writing we have been blessed with a rain and outdoor stuff begins to look brighter.

ALPHA.

Some "Odoriferous" Grafting.

The "fool killer" must have been neglecting his duty in Massachusetts lately. A Lawrence (Mass.) newspaper of July 6 regales its readers with the following choice bit of horticultural information (?), gleaned in North Andover:

Some peonies smell, and some do not, and many people who admire these pretty June flowers wonder thereat. It was the late Gen. Henry K. Oliver, father-in-law of Mr. Joseph P. Battles, who introduced the odor into the peonies, by means of grafting together the roots of rose bushes and those of peonies. The odoriferous peonies are sometimes called Oliver peonies for this reason.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

❖ \$1000 REFUSED. ❖

A year ago we made an offer of \$1000 cash for ONE PLANT each of the NEW SENSATIONAL CANNAS

❖ ITALIA AND AUSTRIA. ❖

The offer was refused, a greater price being asked. To-day we have the stock and the plants are far better even than expected (see horticultural press), and the price now is \$5 PER PLANT; ❖ \$50 PER 12. ❖

NEW ASPARAGUS SPRENGERI, the best novelty for Florists' decorative purposes, \$1.50 per 12; \$10 per 100, from 2½-inch pots.

A. BLANC & CO., Philadelphia, Pa.

Vegetable Plants.

CABBAGE—Flat Dutch and Drumhead, \$1.50 per 1000; \$5.00 per 5000.

CELERY—Golden Self Blanching, Pascal, White Plume, Pink Plume, Golden Heart, \$1.50 per 1000; \$5.00 per 5000.

CELERY—Transplanted, \$3.50 per 1000.

CASH PLEASE.

JNO. E. DeWALT, Box 82, Carlisle, Pa.

CHRYSANTHEMUMS.

EXTRA EARLY.

WHITE.	YELLOW.	PINK.
Lady Fitzwigram.....\$5 00	Marion Henderson.....\$3.00	Marquis de Montmort \$4.00
Merry Monarch..... 4.00	Yellow Queen..... 3 00	October Beauty..... 3 00

SECOND EARLY.

J. H. Troy..... 4.00	H. L. Sunderbruch..... 3 00	Her Majesty..... 3 00
Mrs. H. Robinson..... 5 00	Miss M. M. Johnson..... 4.00	Nemesis..... 4 00

MID-SEASON.

Mayflower..... 4.00	A. H. Fewkes 3 00	Harry Balsley..... 3.00
Mutual Friend..... 3.00	Georgiana Pitcher..... 4 00	Mrs. S. T. Murdock.... 4 00

LATE.

Mrs. Jerome Jones..... 3 00	H. W. Reiman..... 4 00	Maud Dean..... 3 00
-----------------------------	------------------------	---------------------

Above prices are for 100 plants, not less than 5 of a kind. Purchasers of 250 and over may deduct 50c. per 100 from these quotations.

In addition to the foregoing we have several thousand good sorts, in very best condition and in great variety. These we shall offer as long as stock lasts in 5, 10, 20 or 25 of a kind (to suit purchaser) at \$2.50 per 100, or 250 for \$5.00. Our selection.

NATHAN SMITH & SON, Adrian, Mich.

Mention American Florist.

SMILAX PLANTS AT REDUCED RATES.

We will sell 2-INCH STOCK at \$1.50 per hundred.

We will sell 2 1-2 INCH STOCK at \$2.00 per hundred.

This offer stands for a short time only. Our July Catalogue is ready; have you received a copy?

WISCONSIN FLOWER EXCHANGE, MILWAUKEE, WIS.

When writing mention the American Florist.

Herr's Pansies

My customers tell me are the **BEST STRAIN** grown either in this country or Europe.

Why bother with seed when you can buy plants of this strain any time after Sept. 1st.

\$5.00 per thousand; 75 cts. per hundred.

Write for circular. It will pay you to get acquainted with my Pansies and Rooted Cuttings

L. B. 496.

ALBERT M. HERR, LANCASTER, PA.

PALM 

Seed. FRESH

ON HAND

	Per 100	Per 1000
Areca rubra.....	\$1.25	\$10.00
Cocos Weddelliana.....	1.50	12.50
Geonoma gracilis.....	1.50	12.50
Schottiana.....	1.50	12.50
Coffea arabica (coffee tree).....	1.50	12.50

All Chameleons, Phoenix and many others now in stock. A full list on application.

FOR AUGUST DELIVERY.

Kentia Belmoreana.....	\$1.25	\$10.00
Kentia Forsteriana.....	1.25	10.00

J. L. SCHILLER, Rutherford, N. J.

When writing mention the AMERICAN FLORIST

JUST OUT.

In new and improved form. Present size of buckle fits any 1½-inch strap, old or new; requiring no stitching or riveting to mount it. Other sizes not yet made. Invented and patented by a rose grower to save labor, effort, patience, time and straps. Ask for

STANDARD BUCKLE.

A sample mailed to any address on receipt of 30 cents.

FRANK L. MOORE, Chatham, N. J.

THE DIRECTORY

For 1896.

IS NOW READY.

Price \$2.00.

AMERICAN FLORIST CO.

SPECIALTIES

IN BEST VARIETIES.

ROSES, from 3-inch pots.

CARNATIONS, for fall delivery.

CHRYSANTEMUMS.

SMILAX.

VIOLETS.

Prices low. Send for list.

WOOD BROTHERS, FISHKILL, N. Y.

THE COTTAGE GARDENS,

C. W. WARD, Mgt.

QUEENS, L. I., N. Y.

WHOLESALE SPECIALTIES:

Carnations, Chrysanthemums,
Cannas, Geraniums.

CARNATIONS

Rooted cuttings all sold.

FIELD-GROWN PLANTS
IN SEASON.

Address **CHAS. CHADWICK,**
Lock Box 11, GRAND RAPIDS, MICH.

CARNATIONS A SPECIALTY.

Rooted Cuttings. Young Plants. Field Grown
Plants in season. Write for prices.

GEO. HANCOCK & SON, Grand Haven, Mich.

CARNATIONS.

F. DORNER & SONS CO.,

LA FAYETTE, IND.

PLEASE mention the AMERICAN FLORIST
every time you write to an advertiser.

Young Rose Plants.

The following stock was grown for our own use and is guaranteed first-class in every respect:

1000 BRIDES, 4-inch pots,	4c
400 BELLE SIEBRECHT, 2½-in. pots,	4c
1000 BRIDES, 2½-inch pots,	3c
1000 BRIDESMAIDS, 2½-inch pots,	3c

Also a few BRIDES and BRIDESMAIDS, in 3-inch pots, at low figures.

BASSETT & WASHBURN,
HINSDALE, ILL.

Rogers Park Floral Co.

GOOD FIRST CLASS STOCK.

In 2½-inch pots	per 100	per 1000
Kaiserin Victoria.....	\$4 00	\$35 00
Belle Siebrecht.....	4 00	35 00
Bridesmaids.....	3 00	25 00
Brides.....	3 00	25 00
Meteors.....	3 00	25 00
Meteors, 4 inch pots.....	5 00	40 00

Orders for less than 100 not accepted.
Ready for shipment now.

Send Orders to 41 Wabash Ave., Chicago.

Roses.

GOOD, HEALTHY PLANTS.

BRIDESMAIDS, from 3-inch pots,	per 100 \$4.00
BELLE SIEBRECHT, from 4-in. pots,	6.00

REINBERG BROS.,

51 Wabash Avenue, CHICAGO.

ROSES.

BRIDES, BRIDESMAIDS, MERMETS, KAISERIN and TESTOUT, \$3.00 per 100; \$25.00 per 1000.
LA FRANCE and BRIDES, 3-in. \$5 per 100; \$45 per 1000. 25 at 100, and 250 at 1000 rates.

R. F. TESSON,

West Forest Park, ST. LOUIS, MO.

1000 Mermets,
500 Brides,

From 3½-inch pots.

Extra fine stock, at \$5.00 per 100.

CASH WITH ORDER.

GEORGE A. HEINL, Toledo, Ohio.

Surplus Stock Forcing Roses

BRIDESMAID, BRIDE, MERMET, NIPHETOS, 3½-inch pots, at \$4.00 per 100.
BRIDESMAID, BRIDE, NIPHETOS, PERLE, 2½-inch pots, at \$2.50.

SWAINSONA ALBA, 3½-inch pots, at \$5.00 per 100.
Will take medium sized Latafia borbonica in trade.

SWAINSONA ST.,

275 N. Paulina St., CHICAGO, ILL.

FOR SALE.

125 AMERICAN BEAUTY.....	4-inch
50 ".....	3-inch
750 BRIDESMAIDS.....	4-inch
175 ".....	3-inch
500 BRIDES.....	4-inch
125 PERLES.....	4-inch
175 ".....	3-inch
325 SMILAX, strong.....	3-inch
325 ".....	2-inch
175 CYPERUS ALTERNIFOLIUS.....	3½-inch

JAMES C. MURRAY, 401 Main Street, Peoria, Ill.

A FINE LOT OF

Meteors,
and La France,

Now ready, out of 3 or 4-inch pots. Write for sample and prices to

GEO. A. KUHL, Pekin, Ill.

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ROSES FOR WINTER FORCING

ALL FIRST-CLASS, WELL CROWN STOCK.

2½-in. pots per 100.

\$4.00

4.00

4.00

4.00

4.00

4.00

4.00

5.00

6.00

6.00

6.00

8.00

8.00

8.00

4.00

STOCK:

PERLE

BRIDE

BRIDESMAID

METEOR

LA FRANCE

GONTIER

DUCHESS OF ALBANY

SUNSET

KAISERIN

TESTOUT

SOUV. DE WOOTTON

AMERICAN BEAUTY

BELLE SIEBRECHT

MRS. PIERPONT MORGAN

CLOTHILDE & PINK SOUPERT

3½-in. pots, per 100.

\$10.00

10.00

10.00

10.00

10.00

10.00

10.00

11.00

12.00

12.00

12.00

14.00

14.00

14.00

8.00

GREENHOUSES, WESTERN SPRINGS, ILL. VAUGHAN'S SEED STORE, 84 & 86 RANDOLPH STREET, CHICAGO.

Roses, Roses and Roses.

All the best NEW and STANDARD varieties for winter forcing now ready in A1 stock, and of

MRS. PIERPONT MORGAN,

the most profitable known variety for forcing, and of the easiest possible culture I have a grand lot now ready. Write for special prices on this variety for large lots to

JOHN N. MAY, Summit, New Jersey.

30,000 FIRST QUALITY FORCING ROSES.

READY FOR IMMEDIATE PLANTING.

Fully equal to those sent the last four years, first-class and perfectly healthy in every respect. Only selected growth from flowering shoots used in propagating.

WOOTTON,

3-inch pots, \$8.00 per 100.

METEOR,

KAISERIN A. V.,

SUNSET,

BON SILENE,

MERMET,

PERLE,

GONTIER,

MME. HONTE,

NIPHETOS,

BRIDE,

3-inch pots, \$7.00 per 100.

4-inch pots, \$10.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

ROSES

BEAUTIES, MERMETS, CUSINS, TESTOUTS, NIPHETOS, PERLES, BRIDES, BRIDESMAIDS, METEOR, HONTE, LA FRANCE, WOOTTON, WATTEVILLES, AUG. VICTORIA. 2 3 and 4-inch pot plants. Cash with order. Owing to number booked, they will be executed in rotation to assure prompt delivery. Order early.

Address for quotations, VILLA LORRAINE ROSERIES, MADISON, NEW JERSEY.

AMERICAN BEAUTY, METEOR, BRIDESMAID, BRIDE, TESTOUT, PERLE, M. LOUISE VIOLETS, 2½, 3 and 4-inch. LA FRANCE, WOOTTON, KAISERIN, 3 and 4-inch pots. CALIFORNIA VIOLETS, 2½, 3 and 4-inch. ASPARAGUS PLUMOSUS, 3 and 4-inch.

A. S. MacBEAN, Lakewood, N. J.

ROSES.

Good, strong 2½-inch stock.

Per 100

MARY WASHINGTON..... \$2 00

MRS. DEGRAW..... 2 00

GOLDEN GATE..... 2 50

MME. C. TESTOUT..... 3 00

CASH WITH ORDER.

NATIONAL PLANT CO., Dayton, O.

Mention American Florist.

SMILAX.

Strong plants from last fall, \$3.00 per 100
Young good plants..... 2.00 per 100

CLEMATIS.

A fine assortment for fall. Prices on application.

F. A. BALLER, Bloomington, Ill.

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Adiantum Farlyense

EXTRA FINE PLANTS.

In the various sizes.

Prices upon application.

EDWIN LONSDALE,

Wyndmoor, near Chestnut Hill,

(Station H.) PHILADELPHIA, PA.

Palms, Ferns and Roses.

17 3 to 4 inch PALMS for \$3.00.

10 4 to 5-inch PALMS for \$3.50.

MONTHLY and TEA ROSES, ADIANTUM and SWORD FERNS, LABELS, MOSS, Etc.

SEND FOR LIST.

WILLIAMS & SONS CO., Batavia, Ill.

CHRYSANTHEMUMS.

All the choicest novelties and the cream of the standard varieties. A limited quantity of fine, healthy plants at reasonable prices. Let us know your wants.

Carotation plants all sold.

H. WEBER & SONS, Oakland, Md.

Siebrecht & Wadley's PALMS, FERNS AND ORCHIDS.

We give you good value for your money.

Rose Hill Nurseries, New Rochelle, N. Y.

ROSES. FIRST-CLASS STOCK.

Meteors and Brides, 4-inch, \$6.00 per hundred.

CRABB & HUNTER, Grand Rapids, Mich.

Rochester, N. Y.

Very dry weather prevails in this vicinity; everybody complains that stock is suffering badly; the lawns are dried up in many spots and flower beds look withered where they are not well supplied with water. The light, sandy soil on places near the lake seems to hold the moisture far better than the loam or clay in other districts, and the plants in the sand have made fairly good growth, while in the stiffer ground they are at a standstill. Outdoor flowers show the effects of the heat and dryness; sweet peas are smaller and have shorter stems than usual; the lilies do not last so long, and other hardy stuff drops quickly off the stems. Trade in general is very quiet, as is usual at this season; aside from funeral work very little else is done in the stores, but after all they keep a very creditable show in their store windows, composed mostly of the cheaper flowers, ferns in quantity, palms and various other ornamental plants, for which there is still a limited demand. In the greenhouses everybody is busy yet, either throwing out and replanting roses or chrysanthemums. Many have finished up their rose houses, but chrysanthemums are not all planted yet. The repotting of palms and ferns is still going on, which along with the ordinary every-day outdoor work, keeps the greenhouse men constantly busy.

Mrs. F. Schlegel and her daughter of the firm of F. Schlegel & Sons left here last week for a prolonged trip to Europe; they will remain away for three or four months. Mr. John Charlton and wife are also on a tour through England and the continent. J. B. K.

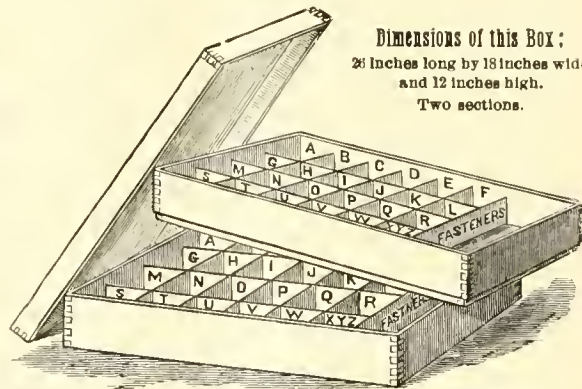
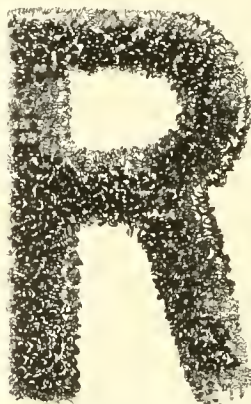
Kansas City, Mo.

The Florists' Club met Thursday, July 9, the regular monthly meeting, at the greenhouses of R. Jarrett. The meeting was well attended, a majority of the members being present. It was decided to hold a picnic at Budd's Park, July 21, and it was requested that every Kansas City florist shut up shop for the day and bring their wives and best girls and have a rousing good time. Mention of the '96 'mum show was enthusiastically received, and a committee was appointed to look up a hall or place to show in, if possible with twice the space of the hall used in '94 and '95, as everything points to a larger show than ever, there being more 'mums grown to meet the sure prospects of an increased trade. As everyone seems to be going to enter for prizes this year, the exhibit promises to be very much larger. It was also decided if any way possible to hold the show for a week, making every day a "special day." After the regular business was disposed of, those present were invited into the spacious parlor and dining room of Mr. Jarrett, where a bounteous repast provided by Mrs. and the Misses Jarrett was partaken of, not forgetting the pleasure of listening to some fine music, both instrumental and vocal, provided by Miss Jarrett and others. After this the meeting broke up with good wishes and good night to our kind hosts. The next meeting will be held at the greenhouses of Mr. A. Barbe, Aug. 13. B.

"ROSE LEAF"

Extract of Tobacco
INSECTICIDE!

PRICE: 1 gallon can, \$1.50; 5 gallon can, \$5.00.
Applied either by vaporizing or by syringing. Try it.
LOUISVILLE SPIRIT CURED TOBACCO CO.,
LOUISVILLE, KY.



Dimensions of this Box:
2 1/2 inches long by 1 1/2 inches wide
and 1 1/2 inches high.
Two sections.

This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

BOSTON FLORIST LETTER CO.

Manufacture the Best Letters in the Market.

Sizes 1 1/2-in. and 2-in. 2.00 per 100. Patent
fastener with each letter.

OUR NEW SCRIPT LETTER, \$4.00 per 100.

N. F. McCARNEY, 13 GREEN ST.,
Treas. & Mngtr. Boston, Mass.
Office, 84 Hawley Street.

We have a new FASTENER which we consider
a decided success. Any customers having old style
fasteners which they wish to exchange, can do so
without additional cost by writing us.

These Letters are handled by all the Wholesalers
Boston.

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E. H. Hunt, 79 Lake St., Chicago, Ill.
Wisconsin Flower Exchange, 131 Mason St.,
Milwaukee, Wis.
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cinnati, O.
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Boston.
The Henry Phillips Seed and Implement
Co., Toledo, O.
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FLORISTS WIRE DESIGNS

MANUFACTURED BY

N. STEFFENS

335 EAST 21ST ST.

NEW YORK.

Mention American Florist.

H. BAYERSDORFER & CO.,
WHOLESALE
FLORISTS' SUPPLIES ONLY,
58 N. 4th Street,
PHILADELPHIA, PA.

Our new Catalogue is now out, free upon
application.

M. RICE & CO.

Importers and Manufacturers of

FLORISTS' SUPPLIES

25 N. FOURTH STREET,
PHILADELPHIA, PA.

Special price for your wants on application.

John Conley & Son,

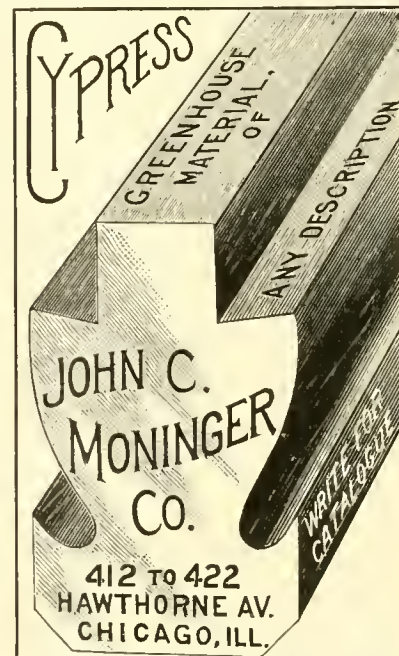
Manufacturers of

TIN FOIL

2 AND 4 DOMINICK STREET,
New York.



When writing mention the American Florist.



GLASS, ROCK BOTTOM PRICES. Send for
Estimate. Satisfaction guaranteed.

REED GLASS CO.

102 South 5th Avenue. NEW YORK CITY

PLEASE mention the AMERICAN FLORIST
every time you write to an advertiser.

THE ANNUAL CONVENTION NUMBER

— OF THE —

American Florist

WILL BE ISSUED

August 15.

In addition to the usual convention matter it will contain a series of elaborately and richly illustrated articles on the use of Hardy Plants, showing the Florist not only how to use these plants to the satisfaction of customers but how to make them a source of profit.*****

This last should receive the earnest attention of the trade at this time, for the growing demand for Hardy Plants can not with wisdom be ignored. It should be met in such a way as to bring the most returns to the Florists' cash drawer. In our Convention Number we shall give the views of the ablest men in the trade on this subject and will include many illustrations that will be very useful to the *Florist* in presenting the subject of Hardy Plants intelligently and profitably to his customers.*****

This issue will reach every possible trade buyer of consequence in America and will have great permanent value to the advertiser, but there will be no increase over our regular rates, which are*****

FULL PAGE.....	\$42.00
HALF PAGE.....	21.00
QUARTER PAGE.....	10.50
FULL COLUMN.....	14.00
HALF COLUMN.....	7.00
ONE INCH.....	1.40

Subject to time discounts where advertiser has time contract with us.*****

Send Orders EARLY so we may have abundant time to get them up in our best style.*****

AMERICAN FLORIST CO.

322 Dearborn Street,

CHICAGO.

News Notes.

YORKLYN, DEL.—N. S. Way is building two houses 20x100 for tomato forcing.

HAZLETON, PA.—H. W. Montgomery is building an additional house 100x20 for roses.

BURLINGTON, VT.—John Wilson has purchased the stock in the store recently conducted by A. W. McIntosh.

WILLOWDALE, PA.—Rakestraw & Pyle will add two houses 20x100 for tomatoes and two 8x100 for mushrooms.

TOUGHKENAMON, PA.—Wm. Richards has in course of construction two houses 20x100 and a violet house 8x100.

MACOMB, ILL.—S. T. Danley is building three houses, one 28x65 for roses, one 11x65 for carnations and a lean-to.

GENEVA, N. Y.—G. R. Watson of the nursery firm of R. G. Chase & Co., was married on June 14 to Miss Anna M. Chapman.

CONCORD, N. H.—The N. H. Horticultural Society will hold its third annual exhibition at Phoenix Hall in this city on September 22-24.

DETROIT, MICH.—A recent issue of the *News-Tribune* contained an illustrated article on city shade trees by Stephen Taplin, in which special attention was given to the need of expert instruction in street planting.

KINGSTON, N. Y.—Valentine Burgevin, who for a period of forty years has been the leading florist in this city, has retired from business. He will be succeeded by his sons George and David under the firm name of Valentine Burgevin's Sons.

CONCORDVILLE, PA.—P. M. Sharpless is starting a new plant of four houses 20x100 for carnations and tomatoes, and 1 violet house 8x100, and will put narrow houses with shingle roof between his large houses for forcing mushrooms.

FARMINGTON, ME.—The annual convention of the Josselyn Botanical Society of Maine opened in this town on July 7 and continued four days. A large attendance of members and others from every section of the state was present, and interesting papers were read by a number of specialists. Officers were elected as follows: Honorary president, Dr. Wm. Wood; president, A. L. Lane; secretary, Prof. M. L. Fernald, Cambridge, Mass.; treasurer, C. H. Knowlton.

Prepare Advs. Now

FOR OUR

CONVENTION
NUMBER

To be issued August 15.

FLOWER POTS.

We Manufacture all kinds of Flower Pots, etc.
Making a Specialty of

Florist Standard Pots

Send for price list and samples (which will be sent free), and we know you will give us your order.

J. G. SWANN'S SONS, Minneapolis, Minn.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.



WIND MILLS FOR PUMPING.
FAIRBANKS—GALV'D STEEL.
ECLIPSE—WOOD.
50,000 Already Sold.
BOILERS FOR HEATING.
VALVES, PIPE AND FITTINGS.
FAIRBANKS, MORSE & CO.
Cor. Franklin & Monroe Sts., CHICAGO.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO.

NATURAL GAS MADE GLASS.
FOR GREENHOUSES.

Write for latest prices.

STANDARD FLOWER POTS.

Send for our new price list, with extra discounts. All of our Pots from 7-inch and upwards have our Patent Excelsior Bottom, which is a great advantage as it insures perfect drainage.

A FULL LINE OF BULB PANS.

THE WHILLDIN POTTERY COMPANY, 713 to 719 Wharton Street, Philadelphia, Pa.

BRANCH WAREHOUSES: { Kearney and Westside Aves., Jersey City, N. J.
Jackson Ave. and Pearson St., Long Island City, N. Y.

STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere. Our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.

We desire to announce the dissolution of the firm of Sipple Dopffel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopffel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

SYRACUSE POTTERY CO. 403 North Salina Street, SYRACUSE, N. Y.

THOS. W. WEATHERED'S SONS,
INCORPORATED.

Horticultural Architects and Hot Water Engineers

Send for Catalogue, enclosing 4 cents in stamps.

139, 141, 143 Center St., NEW YORK.

GLASS

For Greenhouses, Conservatories,
Graperies, Hotbeds, and all other
purposes, at Lowest Rates.

GLASS

N. COWEN'S SON, 392 & 394 W. Broadway, NEW YORK.

Get our Figures before buying Glass.

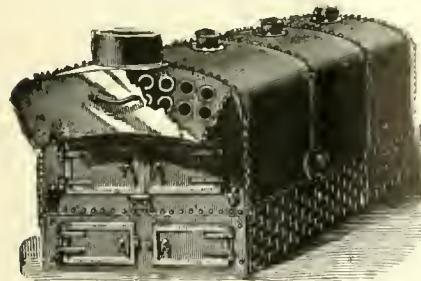
Estimates freely given.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

**SAVE YOUR \$ \$ \$ by using our
HANDY SASH LIFTER.**

For prices, apply to
GEO. W. HAMILTON, 176 Sidney St., Dorchester, Mass.

Kroeschell Bros. Co.
IMPROVED
Greenhouse : Boiler,
29 to 59 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back.) Write for information.

CYPRESS

IS MUCH MORE DURABLE THAN PINE.

**CYPRESS
SASH BARS**

UP TO 32 FEET IN LENGTH OR LONGER.

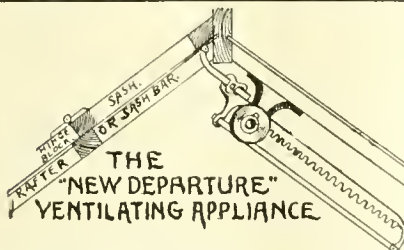
GREENHOUSE

AND OTHER BUILDING MATERIAL.

Send for our Illustrated Book
"CYPRESS LUMBER AND ITS USES."
Send for our Special Greenhouse Circular.

THE A. T. STEARNS LUMBER CO.,
NEPONSETT, BOSTON, MASS.

When writing mention the AMERICAN FLORIST



J. D. CARMODY, Evansville, Ind.

Dear Sir:—Enclosed find remittance for ventilating appliance. I find it the best, cheapest and easiest to work I ever handled—no exceptions whatever.

Yours truly,
J. E. JACKSON, Gainesville, Ga.



**EVANS' IMPROVED
Challenge
Ventilating
Apparatus**

Write for Illustrated Catalogue.

QUAKER CITY MACHINE WORKS,
Richmond, Ind.

IMPROVED GLAZING!
GASSER'S ZINC JOINTS

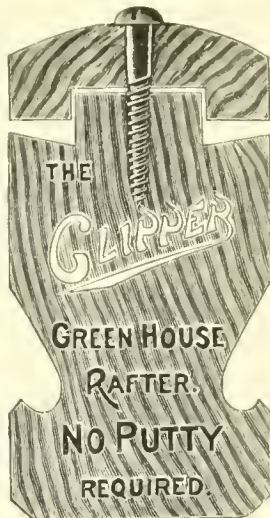
Makes a roof Air and Water Tight. No lapping. No breakage from frost or medium sized hail. Saves fuel.

GASSER'S IMPROVED PUTTY MACHINE—all metal. Most practical and lasting Putty Machine in use. Price, \$2.00. Cash with order.

SEND FOR CIRCULAR.

J. M. GASSER, Florist,
101 Euclid Avenue, CLEVELAND, O.

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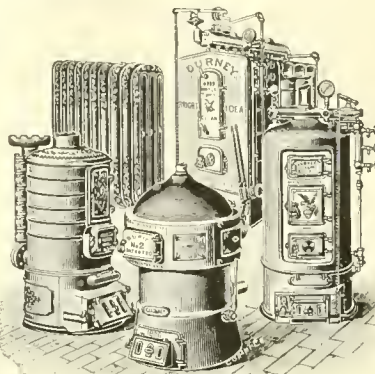


**Clear Cypress
Greenhouse Material**

We have had many years' experience in this line. We introduced Cypress for greenhouse construction. We have made many improvements in the construction of greenhouses. We carry in stock many different designs of Rafters, Sash Bars and everything else from the bottom of gutters up. Our facilities are large, and we are prepared to furnish on short notice material of our own designs or any special designs, and all of open-air-dried clear Cypress Lumber which we have bought for many years of one party because this particular growth of Cypress is as soft as White Pine, and has none of the knots, sap and other defects so common to White Pine. Every foot of our stock is guaranteed Spot Clear. Write for circulars and estimates. No trouble to furnish plans when necessary.

LOCKLAND LUMBER CO

LOCKLAND, O.



**HOT • WATER • HEATERS
AND
STEAM • BOILERS.**

They possess to the highest degree the essential elements of construction which place them in the foremost rank for GREENHOUSE REQUIREMENTS.

CAPACITIES FULLY GUARANTEED.
Send for Catalogues.

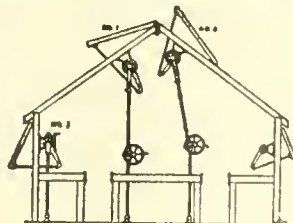
NEW YORK BRANCH:
THE STEAM, WATER & ELECTRICAL EXCHANGE,
82 & 84 Center Street.
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RUBEL & CO., 77 Lake Street.

GURNEY HEATER MFG. CO.,
163 Franklin St., Cor. Congress, BOSTON, MASS.

STANDARD VENTILATING MACHINE.

NONE
EQUAL IT
IN
Strength
AND
Durability

Send for Catalogue.



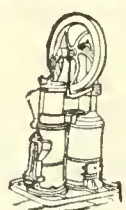
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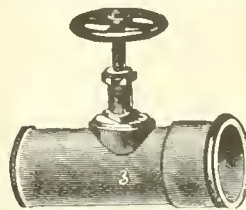
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Scranton, Pa.

Trade is rather spasmodic, though on the whole things are moving along as well as could possibly be expected at this season of the year.

During the past week Mr. G. R. Clark had a prominent wedding decoration, which was carried out on a most elaborate scale. Sweet peas, roses and carnations were used in profusion and to good advantage.

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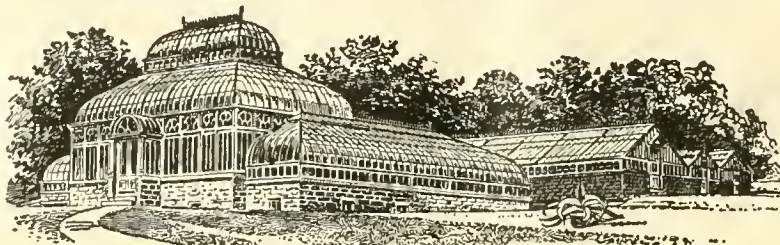
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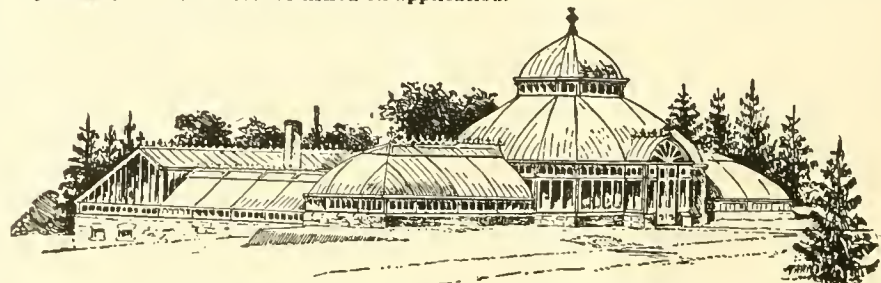
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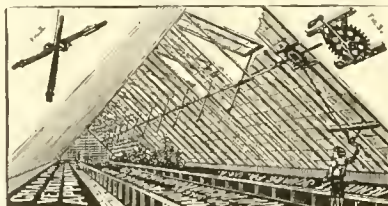
are not allowed to reach the smoke-pipe in a direct line. They are obliged to travel over and around the water so many times (see cut showing arrangement of flues through which heated gases pass) that when they finally leave the heater they have imparted all their available heat to the water. This of course means economy in the consumption of fuel.

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Vol. XI.

CHICAGO AND NEW YORK, JULY 25, 1896.

No. 425

THE AMERICAN FLORIST

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The Twelfth Annual Meeting

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Bromfield St., Boston, Mass., secretary; H. B. BEATTY,
Oil City, Pa., treasurer.

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Chrysanthemum Notes.

The plants in the benches should now be given a top-dressing of manure. We do not use the manure too fresh, but prefer that which was made last winter and has been turned over once or twice. Manure made during the summer months has not the strength of that made during the winter when the animals are fed much more grain than is generally the case at this season of the year, and another thing, fresh manure attracts all the different kinds of insects, and they quickly take advantage of it for an abiding place. Cow manure is generally used for top dressing, but if sheep manure can be obtained we would advise the using of a mixture of both, about one-third sheep manure to two-thirds cow manure. It is sometimes advisable to mix in a little good fibrous loam, as it helps to keep the manure in place, binding it together, and prevents the washing of the manure to the back of the benches. A sprinkling of fine ground bone and lime on top of the soil before placing on the top-dressing will be of very great assistance when the plants begin to develop their flowers. The lime seems to cause the bone to act much more quickly than when the bone is placed on the ground alone. It used to be our custom in making up the compost heap to sprinkle the lime on the top of the manure and then sprinkle the bone on top of the next course of sod; then when we turned over the heap we would often find small lumps of bone covered with mould, but now we use the bone and lime together, and when we turn the heap we find that the lime in dissolving had freed the manurial qualities of the bone and the whole had thoroughly dissolved and become disseminated through the heap. After the top dressing has been put on discontinue the use of liquid manure until the feeding roots have run up and taken a good hold in the mulch.

The small bush plants grown in pots should now be shifted into their blooming pots; 6-inch pots should be large enough unless the plants were started too early and have now grown too large. Those that are in benches can remain there for a month longer yet, and both those in pots and benches can be stopped for some time yet. The middle of July used to be the date for stopping bush plants for the last time, but if you want to grow these

low, small bush plants that so many people desire, you will have to continue stopping until the last of August. There is plenty of time after that date for the plant to make a six inch shoot, on top of which it can bear its flower. Some varieties, however, like Ivory do not want to be stopped quite so late, for this variety sets its buds very early. Other varieties if stopped too late will grow blind as it is termed; that is will not set any buds. Mr. Geo. Bullock, Golden Hair, and C. B. Whitnall can be placed among these. If the grower does not know the habits of the different varieties the 15th of August is a good date to cease all stopping, and then he can experiment with a plant or two of each variety which he desires to grow and watch for the result.

The plants to be grown for sprays should now be stopped for the last time, for you want a good long stem to make the flowers marketable. These plants can now be fed a little weak liquid manure, and once a week is often enough when you start. They will not begin to set their buds until about the 10th of September, and there is plenty of time yet before beginning heavy feeding. They should be carefully kept tied up so that they receive all the benefits possible from the air and sun, and have good straight stems when they bloom.

ELIJAH A. WOOD.



Carnation Notes.

We had for a time quite dry weather; copious rains came last Sunday in time to relieve all vegetation from serious suffering. Carnations have a splendid stand at our place, and I see the same as far as my scope of observation extends, which as I have said before is rather limited; but reports from all over the country are very favorable, and the outlook for good strong healthy plants to house is very encouraging.

Those who followed instructions, and commenced the preparation of the soil for the benches last fall, should bear in mind that planting time will soon be here, and anything they wish yet to add, as well rotted manure, bone, horn shavings, wood ashes or anything that would be of benefit, to supply a lack in the soil, should be added now, giving the soil a final turning and mixing. Be always careful not to handle the soil at all when wet. I would not advise making the soil too rich, for several reasons that I will try to explain. I would rather see the soil in

such a condition that it contains a sufficient supply of well decomposed ready food, than a lot of raw undissolved matter. When a plant is lifted we can only preserve a part of the roots; in fact if all the roots adhered to the plant, we would find it rather cumbersome in transplanting, and would to my belief rather retard immediate root action to some extent; but the root pruning the plant receives in the process of lifting we may consider sufficient. The plant is torn from the ground and receives a complete check; is transplanted in the new soil on the bench; it will take up moisture through the roots, but about the same as a cut branch will when set in water. Its power of discrimination is disturbed; I may say the sense of taste exists only in the fine hair roots that were left in the ground when lifted. The plant will and has to absorb moisture, water, from the soil, to neutralize the evaporation through the leaves, and keep the plant in a working condition. Only water is needed, but in an overstocked soil much uncongenial matter and indigestible raw food is absorbed with the water. Root action, the formation of new roots, has to come as in a cutting, from the stored up resources in the plant, and all the raw food in the soil is of no benefit, rather injury, caused by the involuntary absorption with the water, when at the time the power of discrimination is disturbed.

Again we all know plants can be overfed, especially at the time when they are unable to assimilate and digest all the food piled around them, they should have that later on when they grow stronger, become thoroughly established and then it can be best applied in liquid form or a top dressing.

These are the reasons why I advise not to make the soil too rich, and recommend to add all the nourishing elements in time, to be thoroughly incorporated in the soil, and have time to decompose and change into ready food to be available at the time when plants are convalescing from the rude shock they have received by transplanting. This is the time when ready digestible food is of the greatest importance. Plants may overcome such mistreatment, but much valuable time will be lost, and the abundance of raw material, and the lack of ready soluble food is very often the cause why plants will not take immediate hold of the new soil, turn sick, and become the prey of disease. We cannot grow any good blooms, without plenty of nourishment, but when and how to apply it, makes all the difference.

FRED DORNER.



Cypripediums.

It is a fact well known to orchid cultivators that there is no genus so satisfactory as the cypripedes; there is a sure crop of bloom, quite often twice in the year; the flowers are of long duration, long enough for the grower to keep them until he has a customer who appreciates a good thing, the plants will thrive in the shady corners with nominal attention, and most satisfactory is the knowledge that the plants do not deteriorate as the years go by.

I know of one of the best rose growers who grows a large quantity of *Cypripedium* insignie. In the summer during its growing season, it occupies the benches of the propagating house and stays there until after the crop of flowers is marketed, then the plants, huge specimens, are placed under the benches until the propagating season is past and the cypripediums have had a good rest and are starting to grow again and need light and air during their growth. It is a side issue, but these often make up the difference between failure and success in business.

The group of cypripedes shown is as they appeared during the month of May; there was no attempt at artistic arrangement, for the camera would not admit of a group of large dimensions. It is composed largely of *C. Lawrenceanum* and allied kinds, such as *C. barbatum*, *C. ciliolare* and others of hybrid origin. The *Selenipedium graude* shown is one of the triumphs of the skill of the hybridist. It is superior to both of its parents as a garden plant, having exceptional vigor, and retaining most of the flowers on the stem until all are open and available for use.

The other photograph shows *C. Lowii* and *C. selligerum majus*, the latter being one of the best and most vigorous hybrids among cypripediums. Our plant came three years ago in a three-inch pot and is now in an eight-inch and a fine specimen. It is a much more vigorous grower, larger flower and freer to bloom than the type. *C. selligerum majus* is one of the many fine plants that have been sent out by the Messrs. Veitch, and is the result of a cross between *C. barbatum* and *C. philippinense*. E. O. ORPET.

South Lancaster, Mass.

Dendrobium Alba-sanguineum.

The beautiful dendrobe that has been favored by the authorities with the above name, has had to stand ever since its introduction in a living state as one of the misnomers of the earlier botanists. The name would imply white and red, but the flowers really are a buff yellow with deep crimson markings on the lip, and of unusual size for the dwarf habit of the plant. Like all other dendrobes it is a native of the East Indies, where it has a wide distribution, and as a garden plant, is of dwarf tufted habit, of very easy culture, and one of the handsomest of the genus. It is a pity that its influence cannot be felt in hybridization; we have tried many times to use it both as a pollen and seed parent, but hitherto it has refused to be potent in either direction, nor do we hear of any hybrid that has affinity to *D. alba-sanguineum*. E. O. ORPET.

South Lancaster, Mass.

Cattleya Superba Splendens.

This is one of the few true cattleyas that come to us from Brazil. It inhabits a wide area of Equatorial Brazil, and needs in our system of culture, the warmest part of the orchid house. It should be kept in the winter in a temperature of at least 60°, and when treated thus and given plenty of light and air in summer, we find no difficulty in cultivating it year after year, and it has never failed yet to flower twice during the summer. *C. superba splendens* is one of the richest colored species we have, and well worth cultivating in the most select collections.

E. O. ORPET.

Miscellaneous Seasonable Hints.

By the time you have your roses and chrysanthemums planted and a general clean-up you begin to receive the first arrivals of *Lilium Harrisii*. The lilies are hurt by remaining out of the ground any length of time, and if it is not possible to get them potted at once you can put them in flats and cover with dry earth; that will prevent their drying out till you can get at them; 7 to 9 has not yet arrived with me, but 5 to 7 have, and the first arrival is already potted. With us the *Harrisii* lily is not alone a great Easter favorite, but it has become an essential at all seasons when it can be had, which is now all but a few months in the year. Although not a seasonable hint, yet I might mention how well it pays to save your old bulbs in the spring that you have cut from and plant them out in April in a good piece of ground. Many, in fact most of them, will send up flowering stalks, and how useful they are in July and August. It well pays for the little labor it costs, only don't treat the bulbs too barbarously between the time of cutting the flower and planting out time. Give them some light and not much water. It is desirable to have flowers from the newly bought bulbs as early as possible, and they can be had from middle of October on throughout the winter. For early forcing the small bulbs are much the best. I once tried with a view to save pots and room a lot of 5 to 7 bulbs in square boxes about 15x15 inches, planting 16 bulbs in each box. It was not a success in any feature. A 5 to 7 bulb deserves a 5-inch pot, nothing less; it is not the pot that will take up the room on the bench, it is the plant when well grown, and a 5 inch will give the roots room enough to develop a good flower and healthy plant. For the early crops there is no advantage in placing them outside. Set them on a bench in any house that is shaded and cover the surface of the whole batch with a couple of inches of excelsior or straw; that will keep the soil from drying out every day. The continual drying out and watering is anything but beneficial to the bulbs. When the growth appears of course remove the covering. If you have no bench to spare a frame will answer, but cover with glass with plenty of ventilation, and be sure that in time of heavy rains the pots are not standing in water. Do not plant the bulbs deep; if you can just see the top of the bulb after the first watering you will be just right. I have known young men to say and old men to think that because it is proper to plant a lily bulb or a hyacinth 6 inches below the surface when planting a bed or border that the same conditions should exist when forcing the plants in pots. Not at all; it is quite a different case.

With the larger size bulbs and those wanted for late winter and Easter it is no use delaying potting when you have the time and material. It is not the time you plant that will determine the flowering; it will be the temperature you give them and the time you begin to force or bring them into the houses. An excellent plan with the large bulbs that you are growing to sell as plants, and which should have a 6 or 7-inch pot, is to let the top of the bulb and the soil be a good 2 or 2½ inches below top of pot. When they have made a growth of 4 or 5 inches about the time you are housing them after 'mums are cut, say end of November, you can fill up the pot to proper depth, and this addition of soil will be of benefit to the roots, which are sent out from the stem above the bulb. Lilies like a light



GROUP OF CYPRIPEDIUMS IN CONSERVATORY OF MR. E. V. R. THAYER, SOUTH LANCASTER, MASS.

rich soil. By rich I mean plenty of decomposed manure with the sandy loam, but no manure unless it is well rotted. Finally, why the smaller bulbs are so much better for early forcing than the large is that as 90% are used for cutting you can get most all the flowers out when cutting a stem and sacrifice few buds, and all those who make bunches of lilies know how much easier it is to make an artistic bunch with stems of 3 or 4 flowers than one with three open flowers and 5 buds.

It is time to sow mignonette on the bench for winter cutting; sow without delay; 15 inches apart each way is close enough. A few seeds sown at that distance can be thinned out to one strong plant when they are up an inch or two. A rather heavy rich loam will produce the finest spikes; 6 inches of soil is none too much on the bench. Mignonette transplants badly, and it is best sown where it is to grow.

Pansies that are wanted for winter bloom should now be sown, as only a small quantity for this crop is needed. They can be sown in a flat and kept in a shady place till large enough to transplant, but sow thinly or they will be spindling plants; and look out for red spider; it does not always occur with pansy seedlings, but when it does it is ruination to the little plants and is hard to dislodge. Pansies to be profitable in winter must have a higher temperature than violets, and while the latter can be, and in many places are, grown with great success where not a ray of sunshine reaches them during the five dark months of winter it would be folly to expect *Viola tricolor* to bloom under such conditions. All the light and sunshine that can be gathered is needed for the pansies, and not less than 45° at night for temperature. After shifting the date of sowing pansy seed—for spring sales—many times

during the last twenty-five years I have determined that for this latitude the middle of August is about right. If much sooner they become too large when winter sets in. If much later they are too small in the spring to flower early enough for early spring sales. Get the best pansy seed you can buy, don't be guided so much by the beautiful red, white and blue pictures you see in the literary works of our artist seedsman, but find out who is well known as a specialist and reliable firm with these favorite flowers. Sow in a frame and cover with a shaded sash, which should be raised four or five inches back and front. When well up remove the sash entirely or they will draw up weak. Don't think a few extra hours in carefully sowing is foolishly spent. Sow in drills two or three inches apart, covering just sufficient to hide the seed, and don't sow too thick in the drills. It is impossible to tell in writing how to let the seed drop from your finger and thumb; it would be as impossible to teach a man by writing how to handle a pen, surgical instrument or a billiard cue.

WM. SCOTT.

Circulating Steam and Hot Water.

We are putting in a new 25 H. P. boiler and intend running hot water and steam. How many openings and what size return and openings would be necessary?

HOT WATER AND STEAM.

Your correspondents "Hot Water and Steam" have struck a new idea, and one that seems to me hardly practical. To circulate steam and hot water both from the same boiler is something new and I have not been able to find any engineer who will endorse it.

Looking at the thing from the common sense standpoint, I am compelled to say that I think the thing is entirely impracticable.

I would advise "Hot water and Steam" to confine the circulation to one or the other system, whichever they may think will suit their purpose best. For a 25 horse power boiler, if for hot water circulation, not less than a 5-inch outlet for flow, and a 3-inch inlet for return should be used; the outlet of course should be on top of the steam dome, and the return at the bottom of the boiler. If they intend to use it for steam, then probably a 4-inch outlet for the steam and a 2½ or 3 inch for the return condensed water would be all that would be necessary. To prevent the steam forcing the water back up the return pipes, it is always best to put a return steam pipe as low as possible in the boiler pit before returning them into the boiler.

"Unless Hot water and Steam" intend to keep a night fireman, my advice would be to confine themselves to hot water circulation, and in the end I think they would find it much more economical and also much more satisfactory. I know that this is contrary to the advice of some of our people who have steam in regular use, but I am simply giving my experience in the matter. We have a steam plant here that is conceded by all who have seen it to be as good a plant as can be erected, but we are very apt to have an elbow burst or a union give out, or a hundred and one other little items occur, creating more or less trouble and certainly constant watching all the time, whereas in hot water circulation I do not think we have spent one hour for repairs upon any of our systems of hot water since they were erected. Furthermore our hot water heating is unquestionably cheaper in point of fuel than our steam heating, as we have kept very careful records of all our systems ever since they have been in operation, and we find this is the case every year, which combined with the certain amount of annoyance

and care required in looking after the piping and so on, connected with our steam apparatus, we find a considerable item in advantage of hot water.

JOHN N. MAY.

The Way to Cleveland.

I have already received some enquiries from eastern friends about the boat from Buffalo to Cleveland, and although the Secretary may give more official notice later, it seems to me a little information at once is not too early. There is a magnificent boat leaving Buffalo every night at 8:30 Eastern standard time, running direct to Cleveland, reaching there about 7 o'clock in the morning. The boat may not be quite as well as one of the sound steamers, but almost. The fare is \$2.00 without stateroom. It is really the way to go from the East to Cleveland or that part which you can go by water. For New York City and all adjacent territory the train which they should take should be with a doubt the glorious Empire State Express which leave New York City at 8:30 a. m., arriving in Buffalo 5 p. m. The ride is a dream and there are but three stops between the great city and Buffalo. All necessities will be found on the train. This gives you a few hours to breathe some pure oxygen. To Boston men, and that means all of New England, a train leaves over the Boston and Albany about 7 p. m., getting to our town at noon, giving them time enough to realize the extent of asphalt and the beautiful park system of Buffalo. Philadelphia is already posted, and if trains do not suit to catch the boat, and they should be compelled to spend 10 hours in this city they will not regret it. Last but not least, our friends from Canada, more particularly from Toronto, can leave there at 2 p. m. and have lots of time to make connections with the Cleveland boat. Only a few miles of that journey will be on land and those few hours will be entirely on the banks of the St. Lawrence river, for from the head of Lake Superior to the Atlantic it is only the St. Lawrence widened out in places. There are many towns and cities tributary to these roads of which it is unnecessary for me to speak, but all I trust will help to swell the crowd going to Cleveland.

WILLIAM SCOTT.

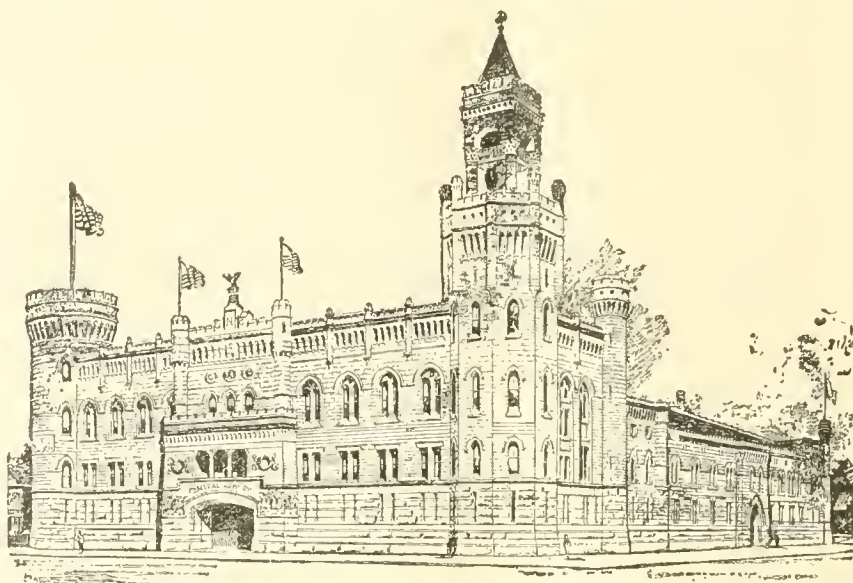
Cleveland Hotels.

Following is a list of Cleveland hotels at which rates have been secured for those attending the S. A. F. Convention.

Name.	Capacity.	European plan.	American plan.
The Hollenden	300	\$1.00	\$3.00
Forest City House . . .	100	—	2.50 to 3.00
Weddell House	100	—	3.00
American House	50 to 75	—	2.00 to 2.50
The Garlock with bath, private dining room for parties		—	2.50
The Stillman	150	—	3.00
Hawley House	100	—	1.50

Cleveland.

President Scott and Secretary Stewart arrived in the city on Tuesday morning, and in conjunction with the local officials, made final arrangements for the convention program. These details are in Secretary Stewart's hands and through him will be furnished to the trade papers. It may be said, however, without trenching upon that gentleman's territory, that it is very strongly believed that convention visitors will be much pleased by the various features of the program. Army and Navy Hall, used for meeting purposes, is highly satisfactory in every particular,



THE BUILDING IN WHICH THE SOCIETY OF AMERICAN FLORISTS WILL HOLD ITS CONVENTION AT CLEVELAND.

being convenient in location, of the most desirable dimensions, on the ground floor, and amply provided with committee rooms for all purposes. The exhibition hall is near by, and cannot be excelled in desirable features. The room is ample for every emergency, and every foot of it is available for use, all being lighted equally by the glass roof and no part of it obstructed or hidden from view from any part of the hall. The entrances are handy in all parts of the building, so that exhibitors will have no difficulty in handling their goods. The fact that the local society gives a flower show in connection, that will be liberally advertised, adds much to the desirability of the opportunity for trade exhibits. Applications for space have been liberal and are still coming in, but the size of the hall enables the management to assure good space to all who may desire it.

Concerning the flower show feature your correspondent would say again for the benefit of those who may have overlooked previous information, that premium lists and entry blanks may be obtained of the secretary, Wm. J. Leitch, Glenville, O., J. M. Gasser, 101 Euclid Ave., or E. H. Cushman, Euclid P. O., Ohio. To the latter gentleman should also go applications for floor space for the trade exhibit, he being superintendent of that department. It might also be said in this connection that the Hon. Wm. McKinley, of whom doubtless quite a few readers of the AMERICAN FLORIST have heard more or less, has been invited to make the opening address, and it is hoped that he will be able to arrange his affairs so as to accomplish it. He has promised to do his best, although unable as yet to state definitely.

Suitable arrangements have been made with the hotels and applications for quarters may be sent to the chairman of committee on hotels, Mrs. E. G. Wilson, 606 Jennings Ave., Cleveland.

It should also be said that the chairman of committee on shooting is very desirous that the club captains who have not yet communicated their intentions to him, should do so at once in order that all necessary arrangements may be made. This applies also to individuals. Address communications to S. N. Pentecost, Republic Street, Cleveland. Bowling men should write H. A. Hart, 1274 Detroit

Street, who is chairman of the committee on bowling. In both of these matters the committees will provide desirable trophies for both individual and club records.

There is very little to record concerning business, as everything is very quiet; a little funeral work is about all that keeps the stores going. The weather so far this season has been favorable to growing stock, by reason of the very abundant rains. We have in fact, had very nearly too much, while the weeds thrive gloriously. Asters are beginning to appear more plentifully and shortly will be in full crop. So far they have been very fair in quality and the aster bug has not yet appeared to embitter the life of the grower. He usually appears about as soon as the aster flowers, but so far this season has not shown up, possibly owing to the amount of rain that we have had. Dry, hot weather appears to suit him best. There has been considerable complaint concerning sweet peas not flowering as they should. They seem to have made fully as much growth as in other years, but the flowers are lacking both in quantity and quality. Blanche Ferry and Emily Henderson are doing slightly better than other sorts, but even these two old reliables are by no means up to the mark. There seems to be enough of them to go around, however, so the loss is not so serious.

Harry Basley of Detroit and J. Austin Shaw of New York, who represents Siebrecht & Wadley in these parts, have been in town lately.

A.

Boston.

There is but little for the city florists to do and that little is accomplished at a minimum cost as far as stock is concerned. There is no ruling price on anything; almost any offer is accepted as a lucky windfall. The out-of-town florists and growers find enough to do, however, to keep the weeds down, the recent abundant rains having given these a vigorous start. Garden flowers and shrubs have improved greatly in appearance since receiving the much needed moisture but lawns are as brown as ever in many localities. This brownness is not entirely the result of dryness as any one who will take the trouble to turn up a piece of the loosened sod will be convinced when he



SELENIPEDIUM GRANDE.

CYPRIPIEDIUM LOWI.
CYPRIPIEDIUM SELLIGERUM MAJUS.

sees the numerous fat white repulsive looking grubs underneath. The effective remedy for this pest has not yet come to light. He divides the honors at present with the army worm. Tales of the destructive work of the latter are coming in constantly from various parts of the state, and they are approaching within an uncomfortable distance of Boston. A gentleman had a few specimens of him at Horticultural Hall on Saturday. He is about one and one-half inches in length, striped light and dark grey, hairless, and travels about with amazing rapidity.

The exhibition at Horticultural Hall on Saturday, July 18, was very full and interesting. Hardy ferns were the specialties and there were several exhibitors who showed forty varieties and upwards each, all named and some of them very rare. Carl Blomberg won first prize on these and Mrs. P. D. Richards second. Hattie E. French staged a beautiful collection of native grasses and sedges. From Dr. C. E. Weld came a set of six plants of achimenes that were pronounced the best seen here for years. It was also prize day for gloxinias. J. S. Bailey's flowers were of fine form and richest coloring and took first premium, Dr. Weld being second and J. L. Little third. J. S. Fay filled a whole table with hollyhocks, which made a brilliant display but showing unmistakably in every bloom the effects of the dreaded hollyhock fungus. Mr. Fay also showed a large number of roses, hardy phloxes and larkspurs. The nymphæas and other aquatic flowers from Jas. Brydon and Carl Blomberg attracted great attention. One of the most beautiful flowers ever shown was Mr. Brydon's *Nymphaea Marliacea ignea*, its rich deep color being especially admired. These with snapdragons from John Jeffries, hardy herbaceous flowers from Rea Bros., tuberous begonias from Dr. Weld and E. S. Converse and a promiscuous display of choice things from James Comley and others together with the luscious berries and other fruits shown, all combined to make an exhibition well worth seeing.

A few asters are now coming in to the market, white and purple being the only colors yet seen. They are only fair in quality as yet. Sweet peas are very plentiful and much of the stock of these coming in is unsold or sold at a figure that does not pay for picking and marketing. One of the worst features about the sweet pea at this season is its short existence in perfection after being cut. In less than twenty-four hours after its receipt in the city its bright color has fled and evidences of decay are plain. Carnations are small sized at present and roses are small and in most cases badly mildewed.

The existing dullness affords an opportunity for those who wish to enjoy frequent outings and many who are unable to go to country or seaside for an extended vacation take advantage of the many facilities for a few hours sail in the harbor or further away. A sail to Portland was indulged in by half a dozen of the boys on Friday last. On reaching there they were captured by Jos. A. Dirwanger and his good lady, who entertained the party with hospitality free and unlimited.

J. Newman & Sons are doing some rebuilding at their greenhouses in Winchester. D. Zirngiebel is making extensive improvements and adding some fine houses to his establishment at Needham.

The funeral of ex-Governor Russell called for a large quantity of fine flowers and many handsome designs were made.

Jackson Dawson has not been enjoying his usual good health. His attendance at the convention is doubtful.

Toronto.

The shade trees of this city are suffering severely from a plague of the white Tussock Moth, the chestnut trees appear to be its "particular vanity." The Parks Department and other bodies as well as many private citizens have taken the matter in hand in an energetic manner and are making a well directed attack on the enemy. Spraying with a solution of

Paris green is the remedy for killing the caterpillar, tar bands round the trunk for preventing them climbing up again after having been blown or shaken off the leaves, and brooms and scrub brushes for cleaning off the cocoons and eggs out of the bark.

A nice gentle rain descended on Sunday night and Monday morning which has freshened things considerably, but we still want more. Altogether we have had a dry time of it since the spring opened. The beds in the parks however, are doing fairly well but have not filled in quite so well as they ought to have done at this time of year. The two long carpet beds running down from the main entrance of the pavilion at the Horticultural Gardens are a great attraction and are well worth looking at. They were designed and planted by Mr. E. Collins.

The excursion to Guelph tomorrow will be well patronized. E.

Washington.

Now that the schools have closed, the usual quietness in trade has set in; the monotony being broken only by an occasional wedding or funeral. The commencement exercises of the schools did not materially increase the bank accounts of the florists this season. There was an unusual falling off in the use of flowers at these exercises. There was a large number of weddings in May and June, but only a few of them were liberal to our florists. The majority of them were quiet affairs and the decorations were confined to the drawing and dining rooms. A great many of the society people have left the city for the hot month, and the florists look for a long breathing spell, but they will not be idle; they are all busy benching their roses, chrysanthemums and carnations.

Mr. G. H. Brown of the propagating gardens has planted his carnations on benches, where he proposes flowering them this winter; in the fall he contemplates erecting a house over them. The structure will be 30x125 feet. The plants

are at present as fine as one could wish them, in fact they are far ahead of those planted in the open ground. For the past few years Mr. Brown has been compelled to plant his carnations on benches where they were to remain and he says the result has been equally as good, if not better than when grown outdoors and lifted in the fall. Many of our growers are inclined to think that to bench them is the better way. However, Mr. Brown did not resort to this mode from choice, but owing to the lack of space, which he could give to winter blooming plants out doors, he being cramped for room by the stock of shrubbery and other hardy plants he is compelled to carry to decorate the public parks. To look at the small enclosure situated on the Potomac south of the Monument grounds one would wonder where all the plants required for decorating the parks were to come from. There is not an inch of space wasted in the few small houses allowed for growing the plants. Just as soon as the receptions at the White House are over all plants forced for winter bloom are thrown out, and swinging shelves are put in over the benches, then the rush for bedding plants begins. By this time the cutting beds are crowded with soft stuff ready for potting, and hundreds of boxes of seedlings are ready for pricking off. The entire force is put at potting, and by the time it is safe to risk geraniums in cold frames, all the available space is filled, and so the work continues in a rush planting out and refilling the space until the planting is finished, which is usually about July 1. Mr. Brown is very much hampered in his work by the lack of funds. The appropriations are barely sufficient to keep the parks in order during the summer, and to prepare them for spring planting, and when the time for planting out arrives Mr. Brown finds himself confronted with the fact that his money is almost exhausted and the general care of the parks has to be neglected in order to do the bedding. One would suppose that congress seeing the condition of things would make more liberal appropriations for the care of the parks, certainly sufficient to keep the grass nicely cut, and do the planting and keep the beds in condition after they are planted. Yet when we take into consideration the work Mr. Brown is compelled to do with the small amount of money at his disposal, we wonder how he manages it.

REYNOLDS.

San Francisco.

Business is indeed very quiet, in fact there is nothing doing at all, the buying public being all away at summer resorts and elsewhere. Sweet peas are still the main thing coming into the market, and are likely to be for quite a while yet. As a general rule the quality is very fine and the blooms are excellent, also holding their color well. However, the fakirs are now swarming the street corners with immense baskets of sweet peas which they offer at 5 cents a bunch. Roses are now rather scarce, or properly speaking, the growers are resting their stock preparatory to their winter work. They are very cheap, whatever is being handled. Beauties are rather scarce also. Bridesmaids and Brides are very small on account of the very great heat we are having. Carnations are holding their own and are of excellent quality, Scott being the chief variety sought after. We noted some excellent yellow carnations, Dean Hole, from M. Lynch's place, which were really very fine. This is a fine vari-



DENDROBIUM ALBO-SANGUINEUM.

ety, the only trouble being that it is too shy a bloomer. *Lilium auratum* is not over plentiful and finds ready sale. Longiflorums are about over for the season and the growers and dealers are very glad, as the supply was much greater than the demand. *Coreopsis* is also plentiful, with only an occasional call for it. Asters have made their appearance, but as yet are not of very good quality, although we have seen some of Semple's white which were excellent and find ready sale. *Gladiolus* are plentiful, but there seems to be no call whatever for them. Many of the growers have finished their chrysanthemum plantings both outdoor inside. We think that many more 'mums are being grown inside this year than any previous season.

Mr. George Green, who was formerly professor of Botany at Berkeley, and who is now in Washington, D. C., is expected here during the latter part of this week. Mr. Green is ranked as the most eminent botanist in this country.

Mr. Geo. Ernest is again at his post after several weeks' vacation at Camp Taylor in Sonoma county, and is much improved in health.

Mr. Jas. Mitchell, who was superintendent of the greenhouses of Sidney Clack at Menlo Park, has resigned his position and left for San Francisco.

The decorations of the Baldwin-Hobart wedding last week were the most elaborate ever attempted here on the coast. Immense quantities of sweet peas, lilies, roses, etc., were used. The church was beautifully decorated with hydrangeas and palms. The Misses Worn had the contract, which they filled very acceptably.

At a recent meeting of the State Floral Society Vice-President Mrs. Ellen Hodgkins reported that \$390.25 had been realized by the last show of the society, but that the expenses and premiums amounted to over \$370, leaving a balance of only \$20 in the treasury. She urged upon the society the necessity of showing more interest in these shows hereafter. At her suggestion Mr. John Henderson, the treasurer, was instructed to pay the premiums, which amounted to \$192.50, to the successful competitors to whom they had been awarded. President Wickson called the attention of the society to the formation of a new floral society in Berkeley

which already has a nucleus of over 200 members, and which promises to do much for the interests of floriculture in Alameda County. He expressed an opinion that the formation of societies in different parts of the state would stimulate interest in the State Floral Society, which must of necessity be their head center. He also suggested the advisability of encouraging the development of new sweet peas by offering premiums for the most desirable novelties and greatest number of new departures by our California growers. After listening to a discussion on sweet peas in general and of the novelties shown the meeting adjourned.

The San Mateo County Floral Society has decided to hold a chrysanthemum show during the latter part of October and has decided to offer cash prizes to encourage the growers to compete.

The various committees in charge of the "Carnival of the Golden Gate" as the carnival to be held in San Francisco this fall is to be known, are making rapid progress towards a successful termination of the scheme, which we trust will prove successful.

Mr. J. Murray, who recently arrived from the East, has taken charge of the rose houses at M. Lynch's place at Menlo Park.

METEOR.

St. Louis.

While the quantity of stock coming in is small still it is more than the market requires. Roses are coming in better than they have been; price \$3 per 100 for all kinds. Kaiserin is decidedly the best at this season, and has the call in white roses. Carnations cut from the field, are in much better form than ever before at this season of the year. Daybreak is preferred and sells at \$1 per 100. Sweet peas continue plentiful and do not pay for the picking. *Gladiolus* and asters are also plentiful. *Gladiolus* sell at \$2, and asters at \$1 per 100.

Some of the growers will begin housing carnations next week, and they are looking fine this early in the season, with Daybreak in the lead. All varieties are promising, and prospects for a good crop of blooms in the early fall are encouraging.

J. W. Dunford at Central is building two new houses 125x25. Mr. Dunford reports that he lost about \$2,000 on his fruit crop through the cyclone.



CATTLEYA SUPERBA SPLENDENS.

Mrs. M. Ayers of the Ayers Floral Co. has gone east for the summer, and will be back by September 1.

Alex Waldbart is looking for a new place in the western part of the city for growing cut flowers. Mr. Waldbart, who has been sick for a long time, is now much better.

The picnic committee made all arrangements at Clifton Terrace, Ill., for the outing last week, but the enthusiasm is not what it should be this year; the florists are slow in subscribing, and unless more interest is shown the picnic will have to be postponed or given up. The committee has done all in its power, spent time and money to bring about a successful outing.

The bowlers came out in full force Monday night, including our old friend Carl Beyer, and he rolled as of old. In the three games rolled Emil Schray was high man with 546, Fred Weber second, 494, and John Kunz third, 483. The highest single score was made by John Young, 199; Schray second, 197, and Fillmore third, 194. The next bowling will be at the picnic; no strikes and spares can be made, only the pins that one knocks down will be counted, and only 12 balls can be rolled by one man. J. J. B.

Indianapolis.

The Indianapolis Florists' Club has discontinued meetings during the summer; it is, however, probable that a canna display will be given in the beginning of August. Trade has settled down to nearly a standstill, with a splurge here and there.

A recent visit to the parks showed them to be in much better condition than before. The new park commission means business; while their finances are now very limited there are prospects that a good round sum will come forward another year. City Florist Robert McKeand has planted out more than 71,000 plants in the different parks and squares, surely a good beginning. The present

greenhouses comprise about 18,000 feet, with more glass to be added towards spring. Electric lines now run to Garfield Park, where the greenhouses and dwelling of the florist are located.

Robert McKeand being secretary of the Society of Indiana Florists, an informal meeting of the local members was held at his house on Thursday evening, July 16, to arrange for the meeting of the state society and also to arrange for the annual outing of the Florists' Club. The meeting was well attended, much better than expected. The state meeting to complete premium list and make all arrangements for the Tenth Annual Chrysanthemum Show will be held at Dennison Hotel, Century Club rooms, Monday afternoon, July 27. The Florists' Club's annual outing will come off the next day, July 28, at the Bellevue Club House, Anthony Wiegand, F. B. Alley and John Hartje being the committee on arrangements. The members attending the meeting at Garfield Park were agreeably surprised by a spread of good things put before them by Mr. McKeand and his estimable wife.

The special premium list for the chrysanthemum show is much heavier this year than ever and more are expected, making a formidable list to be divided among the different items.

John Heidenreich was married to Miss Anna Kempe on July 10. A reception was held in his new home adjoining the greenhouses, cor. Applegate and Morton Sts., in the evening, a good time for everyone in attendance.

The wife of Julius Joachannii, florist for the Alcazar Store, died Thursday, July 2. The case is rendered more sad by the death of a new-born baby, also. Eight children survive their mother.

Ernest Huckriede & Son are putting up two greenhouses 80x16 each, also putting in a large boiler to heat the whole place with steam, doing away with flues.

E. A. Nielson has moved his dwelling and will add just as much more glass as he has now; 2 houses 20x12, 1 house 50x

20, and 2 houses 48x11, 8500 feet in all. Carnations and roses in all of them.

A. Pahud has added one house, short-span to the south, 20x70 for roses. He reports having had a very good trade this spring; he has a very favorable location, being at the entrance of Crownhill Cemetery.

Martin Braendlein is remodeling his boiler shed and putting in a good large boiler.

Bernie A. Fohl, reported to have gone away on account of financial trouble, has returned. He expects to resume at once. He says everything was idle talk.

Several market gardeners are putting up considerable glass for early vegetables next season.

A. T. Boddington of Pitcher & Manda visited us last week, having been sick for some time in Detroit. He reports business not as bad as expected, but in general all business is suffering, the outlook is somewhat cloudy.

Thanks to the efforts of our state vice-president of the S. A. F., John Evans, Richmond, a good delegation will go from Indiana to the Cleveland convention. During a recent visit of the writer to a convention in Cleveland he had occasion to see a great deal of the park system; what there is finished is simply grand, with many other places of interest about the city. From indications at the present time, the Cleveland convention will be one of the best attended. The dues restriction taken off will help very materially. W. B.

Philadelphia.

O'd humidity is getting his work in just now with a vengeance, but as there is scarcely anything happening to worry us except perhaps that some fret on this account, we manage to stand the heat tolerably well. A slight addition to the decoration of the store fronts is seen in jars of gladiolus and tuberoses standing by the doors with a card on a stick in the center 5 cents a stalk. Sweet peas are also priced and placed within reach of the passers by, all of which is done to try and coax a little trade.

Some very nice asters are now coming in and if there was any business should sell well. They are put up 25 flowers in a bunch at \$1 per hundred. Sweet peas are very plentiful and have no regular price. There are some nice roses from the stock planted out for summer cutting, John Burton's Beauties and Jacob Becker's La France being very good.

James Cole has torn down one old house and is erecting a much larger one in its place; the new structure is to be 200 feet long by 20 wide.

S. S. Pennock's trade is growing so that another and much larger wagon is to be added to his equipment in the near future.

The Gun Club goes on steadily gathering laurels and adding prizes to its already large collection. A nice case with these hard fought-for and well-won evidence of their skill will be quite an ornament in the new club room. Last Saturday they met and defeated the strong Forest Gun Club of this city in a ten man team match by 27 points. The average of the Florists was nearly 19, which is very good for ten men. On August 1, they are to shoot against a number of strong clubs at the annual games of the Caledonian Club at Washington Park, a pleasure resort near this city. The bowlers are also going to take a hand in a team match on the same occasion and try for a prize as well as get

a little much needed practice. The suggestion of the Buffalo club that the various teams contribute towards a national prize to be howled for at the annual conventions, is a most excellent one, and the Philadelphia club will gladly join in the movement to purchase such a trophy.

Mr. Scott's article on "Why we should attend the Cleveland Convention" is most excellent and contains truths that many of us are apt to forget when wondering whether it pays to go or not. The book of proceedings is very useful and always contains much valuable information that is worth far more than the cost to those who stay at home, but to those who attend it is also a valuable book of reference as it carries them back to the convention itself and brings to their minds many things seen and heard, the evidence of which can be obtained only by being present. There is not much said by members of the craft as to their intentions as yet, but it can be safely said that a very good delegation will be sent from this city.

Wm. K. Harris, Jr., the oldest son of Wm. K. Harris, was married last Tuesday evening, the 21st, to Miss Alice Simpson. The ceremony was performed in their own residence, 758 South 51st street, in the presence of a large gathering of relatives and friends. The bride carried a bunch of lilies of the valley. The house is beautifully furnished and was handsomely decorated for the occasion. The happy couple have the best wishes of their many friends for a long and happy life.

Visitors in town: Henry Graham of Terre Haute, Ind., and James B. Kidd of Sunset Seed and Plant Co., San Francisco, Cal. K.

New York.

The flower trade continues very dull with no indications of immediate revival. All varieties of summer stock are coming in as usual and in rather inferior quality.

Many of the city florists are bicycle enthusiasts and find in it a diversion during these dull times. The big bicycle parade at Long Branch last Saturday was participated in by a goodly representation of the florists. Allie Warendoff was awarded first prize, a gold medal, for the best decorated wheel and the first prize for tandem went to Herman Warendoff and Mr. Held. Another expert on the bicycle is James Weir, son of the popular John Weir, Jr. He rode a tandem in the parade.

George Welch of Ramseyes underwent a delicate and dangerous surgical operation for cancer on the tongue some weeks ago. It is now reported that the operation was a great success and that although a large part of the tongue was removed he talks with little difficulty. The daily papers have devoted considerable space to a discussion of the event.

Much sorrow is expressed by those who were so fortunate as to listen to Wm. Hamilton Gibson's interesting lecture at the Pittsburg convention last summer on bearing of the sudden death of that gifted gentleman. All were looking forward with hope to hear him again at some future time. His death is a great loss to floriculture.

Henry A. Siebrecht, Jr., has severed his connection with the Rose Hill Nurseries at New Rochelle and has taken the position of general superintendent and buyer for the plant and flower department at the big store of the Siegel, Cooper Company, which will commence business on September 1. This immense establishment

is located on Sixth avenue, Eighteenth and Nineteenth streets, and an extensive range of greenhouses has been erected on the roof. A better man than Mr. Siebrecht for the management of this department it would be impossible to find. The New Rochelle place, comprising upward of fifty greenhouses, has been under his management for the past eight years, and that means experience.

The exodus of the fortunate ones to transatlantic scenes still goes on. Thomas Jones, of Short Hills, sailed on Monday, July 15, and J. Gerlach, of Newark, on July 16.

Mr. W. H. DeForest, of Kent Place Nurseries, Summit, N. J., died suddenly on Thursday, July 16.

Visiting New York: A. H. Hews, Cambridge, Mass.

Chicago.

The past week has been a very quiet one: Thursday was perhaps the duller day of the season. Prices in most stock remain stationary. Very fair roses are coming in from new stock, Perles being especially good, but the early part of the week all roses opened out almost as soon as unpacked, on account of extreme heat. Much needed rain occurred on Thursday, being extremely wet all day, and while it depressed trade it was highly beneficial to outdoor stock. Flowers brought in on Friday, however, appeared to have suffered from the storm. Sweet peas, which had been selling, the very best, for \$1.25 a thousand, and from that down to one cent a bunch, suddenly fell short, being beaten off by the wet. All the early part of the week they were terribly overstocked. Field carnations looked very dragged on Friday morning. The best sell now for 75 cents, and from that down to very low figures. Selected whites and Scotts are most in demand. Asters are quite plentiful, and generally very poor. Most of them show the center badly, and are uneven in color. The best go at from 35 to 75 cents per hundred; few at the latter figure. White and purple are preferred. Gladiolus is very plentiful, and sells slowly at 50 to 75 cents a dozen stalks. *Lilium Harrisii* is now over. Auratum is fine, and holds at \$8 to \$10; it sells excellently. Speciosum is not seen yet. Water lilies, while cheap, have sold very well. Double sunflowers, coreopsis and gaillardias are plentiful and cheap. Even the fakirs look on them coldly, and want roses, though they have been handling a tremendous number of sweet peas of late.

Fred Otto is going to build two greenhouses, each 18x80, at 1142 North Kedzie avenue.

Mr. Kohlbrand, manager of Klehm's Nurseries, accompanied by his wife, is making a ten days' visit to Cleveland.

Mr. E. Pieser was the victim of a bicycle accident at Mackinaw lately, owing to a trial of strength between his bicycle and a tree. The wheel is a wreck, but Mr. Pieser suffered no damage beyond a severe shaking.

At the recent ball game between the florists and barbers the florists were the winners, with a score of 18 to 17. The next game will probably occur in two weeks' time, between the wholesalers and retailers.

Mr. J. C. F. Meyer, for many years foreman for R. J. Lewis, has leased Mr. Lewis' greenhouse plant for five years, and will continue the business on his own account.

Mr. Walter Rennison, Sioux City, Ia., was a recent visitor. He will spend the next few weeks at Lake Geneva.

Utica, N. Y.

The usual summer conditions prevail at this time. Trade is very quiet. Sweet peas, phloxes and other out of door stuff is about all that is offered. Among the rose growers some have finished replanting and others are hurrying the work along. As a consequence very few good roses are to be had. These are mainly Kaisersins and some Cusins. A few carnations are still to be seen, but they look the worse for wear. A good soaking rain on the 20th gave new life and vigor to the carnations and violets in the field, which were beginning to feel the drouth badly. By the way, there are more schemes for growing violets being tried here than ever before. Some are being grown under glass all summer; others are out of doors potted in frames. In one or two instances the grower has removed the glass and planted directly in the benches, this last to avoid lifting, while others still cling to field culture. The carnations in the field are better than usual at this time of year; cause, plenty of early rains.

Mr. F. E. Shaw, who purchased the place formerly run by Glover & Co., consisting of ten houses on Sunset avenue, is making some changes. The heating apparatus is being renovated, and some of the houses rearranged for the better. One large house is planted to Beauties. His carnations in the field are extra strong. Some fine gloxinias were noticed here. Mr. Shaw reports a very satisfactory trade.

Mr. J. C. Bigelow, when called on, was very busy with funeral week. He is still cutting some fine McGowans, and what is seldom seen nowadays, some Alegatiers. This last carnation would still put to shame some of the later introductions. There was a quantity of bloom in sight, and Mr. Bigelow will grow it still more largely. He reports a good trade and will build a 100-foot house to accommodate an increasing business.

F. J. B.

Syracuse, N. Y.

Trade for the past week has been good, a noted increase in the volume of business being done over the corresponding period of last year.

Mr. Chas. Miles, for the past few years with P. R. Quinlan & Co., has gone into business for himself, having taken the establishment of W. D. Rutland, Vermont. Mr. Miles is a practical all-round florist and good workman, and his many friends in the trade here wish him success in his new venture.

Mr. Atkins, of Siebrecht & W., gave us a visit last Saturday and told us to keep a sharp lookout for the army worm, which has been causing such great destruction to crops in nearby places, too close to be pleasant for some of us who have our carnations planted some five or six miles out in the country. This pest is not entirely new, but this year it has turned up in a good many new parts, completely cleaning off every vestige of vegetation that is in their way, large fields of corn and oats being left bare. They're an ugly-looking caterpillar from two to three inches long, nearly as thick as a lead pencil and of a brownish green color. No doubt they derived the name of army worm from the way in which they go to work, moving in millions from one field to another, which takes but a few hours to be demolished. The farmers are trying different means to stop them, some digging ditches around the crops, others keeping a roller going constantly

up and down to crush them; this is done where the ground is level enough to be practicable. ALPHA.

Columbus, O.

Trade has been exceptionally dull even for July, exceedingly warm weather having its effect.

The Columbus Seed Company have dropped their cut flower business entirely and will devote all their energies to the seed trade.

Local trade has been somewhat affected by some of our florists disposing of their surplus on the markets, which has a tendency to cut prices.

There will be a very large attendance of florists from this section to the convention, it being so near home.

Geo. Miller of Newark was a recent caller. They are just finishing their new place, consisting of three new houses 20x100.

The many friends of Mr. E. G. Gillett were surprised to learn of his business change, and wish him all success in his new business.

J. B. Romans is cutting some good Beauties now. B. K.

Conneaut, O.

The past week has been a busy one, the centennial anniversary of the landing of Moses Cleveland here was most fittingly observed, and in consequence quite a number of plants were sold, new window boxes filled, etc. This practically wound up the most successful bedding-out season ever known here, and the stock has been cleaned out thoroughly.

The decorations for the centennial were remarkably good. The residence of Miss Venen, the principal florist, was made most attractive, and by many was pronounced the handsomest and most artistic. Flags, bunting, evergreens, flowers and hanging baskets were the materials used.

In the cemetery here very few plants are bedded out, owing to the work of that most despicable class, graveyard thieves, who would steal a good plant in less than twelve hours after it was planted. This is what has discouraged people from planting good plants on the graves. Vases are much used. H. Y.

From Toronto to Cleveland.

Stewart will at an early date give information about transportation to Cleveland, but as plans are sometimes made a long way in advance I want to let my Toronto friends know that we have secured a round trip ticket from Buffalo to Cleveland for \$3.00. Having but a few hours stepped off her clean decks I can assure you she (the City of Buffalo) is fast, commodious, and on her will be found all the comforts of home. It would be impossible to be seasick on her unless you took something to produce it. To be serious, we hope to see many Canadian friends at Cleveland, and to those from Toronto and vicinity it would be best to take a return ticket to Buffalo and then purchase the return ticket to Cleveland. There is no excuse that it is too far away from home this time. W. S.

Foreign Notes.

Two new lilies from China have recently been flowered in Italy. One of these, which has been named *Lilium chinense*, is described as having a flower somewhat similar in shape to *L. Martagon*, but larger; color a rosy orange,

etched over the greater portion with dark purple spots. A variety of this species in which the markings are extra dark and numerous is called *L. c. atropurpureum*. The other species, somewhat similar in appearance to *L. chinense*, but botanically very distinct, is *L. Biondii*; the segments of the flower are more revolute, the color being a more decided orange scarlet. Both are likely to be valuable garden flowers.

M. Moser, the well known florist and nurseryman of Versailles, France, has been decorated by the Emperor of Russia with the Order of St. Stanislas, in recognition of his fine display of trees and shrubs at a St. Petersburg exhibition.

Smilax.

"J. G. S." wants to know how far apart to plant smilax. If you think you will keep the bed in undisturbed for 3 or 4 years, plant 1 foot apart in the rows, and the rows 15 inches apart. If you intend to plant annually, which is the best way, then 8 inches apart between plants and the rows 10 inches apart will be enough. WM. SCOTT.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By florist and gardener; references. Address W. B., care Am. Florist.

SITUATION WANTED—By first-class rose and cut flower grower, at once. GEORGE LINE, Ottumwa, Iowa.

SITUATION WANTED—As working foreman. Good grower of roses, carnations and mums. First-class references. W. S., care American Florist.

SITUATION WANTED—By good, all around gardener; 7 years' experience. Good references. Address W. C., care American Florist.

SITUATION WANTED—First-class grower roses, carnations, pot plants, etc.; good floral worker; good references; lifelong experience; age 33, English. F. W. GODFREY, Hackensack, N. J.

SITUATION WANTED—By an experienced florist—cut flowers preferred, roses and carnations. South or west preferred. Address J. L. SHEA, Fredonia, Crawford Co., Ind.

SITUATION WANTED—By the latter part of August, as rose grower; 16 years' experience; good worker. Best references. Those needing a hustler need only apply. State wages. Address ROSES, care American Florist.

SITUATION WANTED—By first-class florist, with best of references; thoroughly understands growing of roses, mums, carnations; can take full charge; sober and industrious. Correspondence solicited. D., care American Florist, Chicago.

SITUATION WANTED—As foreman or manager by a first-class grower of roses, carnations, mums, palms, ferns, violets, bulbs and general stock; 22 years' experience; best of references, single; correspondence solicited. FLORIST, 129 N. Clark St., Chicago.

SITUATION WANTED—By a No 1 practical florist and gardener, one who understands the growing of cut flowers and general collection of plants; American, age 35 years, single, sober, honest and industrious, not afraid of work. Address W. C., 406 Virginia Ave., Indianapolis, Ind.

WANTED—To buy, second-hand boiler, pipes and glass for two small greenhouses. FRED OTTO, 1142 N. Kedzie Ave., Chicago.

WANTED—A first-class rose grower, one with long experience. Must have the best of references. Seven iron houses. Address A. K., care American Florist, Chicago.

WANTED—A first-class propagator and grower of roses and general stock for catalogue trade. Single German preferred. State age, experience, and wages expected. Address with references, L. TEMPLIN & SONS, Calla, O.

FOR SALE—120 3x6 sash. Who wants them? Address C. T. BURGESS, Avoca, Iowa.

FOR SALE—At half price three greenhouses, stock, boiler, pipes and everything belonging to it. If applied for soon. W. S. P., care American Florist.

FOR SALE—Cash Register No. 79, check printing and total adding; used only a few months, and is new. Will dispose at a bargain or trade. E. HIPPARD, Youngstown, O.

FOR SALE—Four hot water boilers; will heat 30,000 square feet of glass. All less than price of one new. Address or call. BLANT & NOE, Forest Glen, Ill.

FOR SALE OR LEASE—Five greenhouses, dwelling, sheds, etc. No competition. Half price. Bargain. Reason, bad health. For particulars address B., care American Florist, Chicago.

FOR SALE—Very cheap for cash: greenhouses, 300 feet of glass, steam heat; also ground 100x200 ft., 5 room dwelling, office and boiler room. All in good condition. Best reasons for selling. WM. G. WHITE, Ovid, Mich.

FOR SALE—Cheap, cheap; one No. 16 Hitchings corrugated boiler; one No. 4 Scollay; two No. 3 Scollay; will sell at a sacrifice. Also have 3000 feet Flach pipe, at a bargain. Address CHAS. L. MARSHALL, 705 Stevens St., Lowell, Mass.

WANTED.

Florists, Seedsmen and Florists' Supply Houses, please send Catalogues, or call on HENRY SIEBRICHT, JR., 251 Sixth Ave., care Siegel, Cooper Co., New York City.

FOR SALE OR RENT.

Nine greenhouses, fully stocked; business established 14 years; good local trade; also a new brick office and salesroom, three-story brick dwelling and brick stable; about twenty blocks from the center of city; a most excellent opportunity. Call on or address JOHN WATSON, Jr., 715 Equitable Building, Baltimore, Md.

WANTED TO BUY OR LEASE

for term of years, a good retail plant and cut flower business, in a thriving town. Vicinity of New York or Boston preferred. Please state true particulars. Address A. B. C., care American Florist.

FOR SALE—Second-Hand Boilers.

2-60 H. P. TUBULAR BOILERS.
3-40 H. P. TUBULAR BOILERS.
1-25 H. P. TUBULAR BOILER.
2-25 H. P. LOCOMOTIVE BOILERS.
All the above are in first-class order, well adapted for greenhouse heating, either steam or hot water. Will sell cheap.

CLEVELAND STEAM BOILER WORKS, Cleveland, O.



TRY DREER'S GARDEN SEEDS.

Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade list issued quarterly, mailed free to the trade only.

HENRY A. DREER, Philadelphia, Pa.

Mention American Florist.

We devote our whole attention to

DAHLIAS

and not only have the LARGEST and BEST collection in America, but guarantee our stock true to name. We are now filling orders for trial grounds. Every SEEDSMAN and FLORIST interested in DAHLIAS should send for our new descriptive Trade List.

W. P. PEACOCK, Atco, N. J.

Immortelles.

We are now ready to book wholesale orders for All quality at lowest prices.

J. L. SCHILLER, Rutherford, N. J.
Sole Agent for Alphonse Roche, Ollioules, France.

E. G. HILL & CO.,
Wholesale Florists
RICHMOND, INDIANA.
Mention American Florist.

100,000 Strong Field-Grown ROSES
(Budded and own roots) for Fall delivery.

Try our new BIOTA AUREA NANA.
Thousands of Olea Fragrans, Azaleas, Camellias and Magnolia Fuscata.
Prices on application.

P. J. BERCKMANS, Augusta, Ga.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.
Subscriptions accepted only from those
in the trade.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
wares pertaining to those lines ONLY. Please to
remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to se-
cure insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

THE GENERAL HORTICULTURAL EXHIBITION, to be held in Hamburg, Germany, from May to September, 1897, issues a premium list which offers great inducements to exhibitors. The prizes include some 300 gold, 2600 silver, and a number of bronze medals, and 30,000 marks in cash prizes. Most of the transportation lines make special rates for exhibits, Hamburg having excellent facilities in this line. Communications from intending exhibitors should be addressed to the "Committee of the General Horticultural Exhibition of 1897, Hamburg, Germany."

FAMILIAR TREES AND THEIR LEAVES is the title of a new volume by F. Schuyler Mathews, written with the view of familiarizing tree lovers with our most familiar specimens. It is liberally illustrated with over two hundred drawings by the author. The classes of trees are not arranged according to botanical rules, but according to the shape of the leaf. This is certainly the easiest way for amateurs who do not wish rigidly botanical instruction, though perhaps open to criticism from a scientific standpoint. The drawings, however, will render the identification of any leaf desired very easy. Care has been taken in giving the botanical names, though we think it a mistake to give two synonymous botanical names together without explanation. The unbotanical for whom the book is designed, will be unable to discriminate. It is a slip, also, to give the established botanical spelling of *Ailantus* as *ailanthus*; this is not correct, though it appears in the latest revised edition of Gray's Botany. The tree in question is *Ailantus glandulosa*, not *Ailanthus glandulosus*. The book is very prettily bound and well printed, and is provided with a copious index. (D. Appleton & Co., New York, publishers.)

Catalogues Received.

J. M. Thorburn & Co., New York, trade list vegetable seeds; E. H. Krelage & Son, Haarlem, Holland, wholesale list bulbs; J. M. Thorburn & Co., New York, trade list bulbs; Wisconsin Flower Exchange, Milwaukee, Wis., plants, bulbs, and florists' requisites; D. B. Long, Buffalo, N. Y., plants, bulbs, seeds, and florists' requisites.

Tree Planting Laws.

In answer to the query of Reader, page 1316, I would say (without time for special reference to our law library) that generally overhanging neighbor's branches may be cut away, and no doubt all roots growing into one's ground may be cut away also.

JAMES MACPHERSON.

Trenton, N. J.



FANCY.

DAGGER.

NEW HARDY FERNS, 1896
Warranted First Quality.
PRICE REDUCED TO 75c PER 1000

FROM NOW UNTIL DECEMBER 1st.

Also Dealer in BOUQUET GREEN, SPHAGNUM MOSS, CHRISTMAS TREES, Etc., Etc.

L. B. BRAGUE, Hinsdale, Mass.

When writing mention The American Florist.



Mention American Florist

Send Advs. Now

FOR OUR

**CONVENTION
NUMBER**

TO BE ISSUED

AUGUST 15.

\$1000 REFUSED.

A year ago we made an offer of \$1000 cash for **ONE PLANT** each of the

NEW CANNAS

ITALIA AND AUSTRIA.

The offer was refused, a greater price being asked. To-day we have the stock and the plants are far better than expected. The price now is

\$5 PER PLANT; \$50 PER 12.

NEW ASPERACUS SPENCERII.
The best novelty for Florists' decorative purposes, \$1.50 per 12; \$10 per 100, from 2 1/2-inch pots.

Send for Catalogue of Novelties.

A. BLANC & CO., Phila., Pa.

When writing mention American Florist.

AZALEAS, the finest commercial varieties.

PALMS, large, healthy stock, well grown.

ARAUCARIAS, from cuttings only.

BAY TREES, perfect shape, in all sizes.

SANDER, Bruges, Belgium.

Agent: **A. DIMMOCK,**
106 & 108 Liberty Street, **NEW YORK.**
SEND FOR SPECIAL OFFER.

BRILLIANT GREEN AND BRONZE

GALAX LEAVES,

For Decorating and all Florists' Designs.

CHAS. H. RICKSECKER, Linville, Mitchell Co., N. C.

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FLORISTS**
JOEBERS IN
FLORISTS'
SUPPLIES.
FLORISTS'
VASES.

METS,
BRIDES,
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.

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HORTICULTURAL AUCTIONEERS.
Mention American Florist

WELCH BROS.

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NO. 2 BEACON STREET,

Near Tremont St.,

BOSTON, MASS.

Asparagus Plumosus Nanus.

Cut Strings, 8 to 10 feet long,

50 CENTS.

W. H. ELLIOTT, Brighton, Mass.

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Wholesale Florist,**

1122 PINE STREET,

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A complete line of Wire Designs.

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Wholesale Florist**

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Cincinnati, O.

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FLOWERS AT WHOLESALE.**

Strictly Commission Business.

SUPPLIES, ETC.
LISTS FREE.

BUFFALO, N. Y.

Mention American Florist.

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Wholesale Florist**

1612 & 1614 BARKER STREET,

Bet. Market & Chestnut, **PHILADELPHIA, PA.**

**A. & F. RÖLKER,
Down-town Wholesale Florists,**

106 & 108 Liberty Street (Basement).

NEW YORK.

E. H. HUNT,
WHOLESALE FLORIST
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WHOLESALE CUT FLOWERS.

SEEDS, BULBS AND ALL
 FLORISTS' SUPPLIES

KENNICOTT BROS. CO.
Wholesale Cut Flowers
 and FLORISTS' SUPPLIES,
 88 Wabash Avenue, CHICAGO.

Winter & Glover,
 Successors to T. J. CORBREY & CO.
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 59 Wabash Ave., CHICAGO.

If you want First-Class Flowers, properly packed and delivered on time, send us your orders and you will get what you want.

We are now prepared to furnish Florists' Wire Designs and a full line of Florists' Supplies.
 WRITE US FOR OUR ILLUSTRATED CATALOGUE.

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 Successors to J. B. DEAMUD & CO.,
CROWERS and WHOLESALE CUT FLOWERS,
 DEALERS in
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Reinberg Bros.
WHOLESALE CUT FLOWERS,
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 Telephone Mein 4937.

Our Roses best them all, in quality.
 Headquarters for fine American Beauties

LOOK FOR OUR ADV.
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Convention Number
 (ONE-HALF PAGE)

W. E. LYNCH, 59 WABASH AVE., CHICAGO.

ROGERS PARK FLORAL CO.,
 Wholesale Growers of
CUT FLOWERS,
 41 WABASH AVENUE,
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We are prepared to fill your orders with first-class flowers. Give us a trial order.

A. G. Prince & Co.
 WHOLESALE
COMMISSION FLORISTS,
 88 Wabash Avenue,
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 Telephone Main 3208.

Consignments solicited. Prompt attention to all orders.

Send Advs. NOW
 FOR OUR
Convention Number,
 TO BE ISSUED
 AUGUST 15.

Wholesale Markets.

Cut Flowers.

	NEW YORK, July 20.
Roses, Beauty.....	2.00@20.00
" all other varieties.....	.50@ 4.00
Carnations, ordinary.....	.25@ .50
" fancy.....	.50@ 1.00
Sweet peas per 100 bunches.....	1.50@ 3.00
Valley.....	2.00@ 3.00
Harrisli, Auratum.....	2.00@ 3.00
Mignonette.....	.50@ 1.00
Adiantum.....	.75 @ 1.00
Asparagus.....	30.00@ 40.00
Smilax.....	8.00@ 10.00

	BOSTON, July 20.
Roses, Gontier, Niphotos.....	1.00@ 2.00
" Perle, Mermet.....	2.00@ 3.00
" Bride, Bridesmaid, Meteor.....	2.00@ 4.00
" Beauty.....	5.00@ 15.00
Carnations.....	.25@ .50
" fancy.....	.50@ 1.00
Valley.....	.50@ 1.00
Longiflorum.....	6.00@ 10.00
Mignonette.....	.50@ 1.00
Sweet peas.....	.25@ .50
Adiantum.....	1.00
Smilax.....	10.00@ 12.00
Asparagus.....	50.00

	PHILADELPHIA, July 20.
Roses, Beauties long.....	1.00@ 2.00
" medium.....	8.00@ 15.00
" short.....	2.00@ 5.00
" Brides, Bridesmaid, La France etc.....	2.00@ 4.00
" Kalscrin.....	3.00@ 4.00
" small teas.....	1.00@ 2.00
Carnations, fancy.....	1.00
" first quality.....	.50@ .75
Sweet peas.....	15.00@ 20.00
Smilax.....	15.00@ 50.00
Asparagus.....	35.00@ 50.00
Adiantum.....	1.00

	CHICAGO, July 24.
Roses, Beauties.....	8.00@ 20.00
" seconds.....	4.00@ 6.00
" Brides, Bridesmaid.....	1.00@ 3.00
" Meteors.....	3.00
" Perle, Wootton.....	2.00
" Testout.....	4.00
" Kalscrin.....	4.00
Carnations.....	.50@ .75
Longiflorum.....	4.00@ 6.00
Auratum.....	6.00@ 10.00
Tuberose.....	4.00@ 6.00
Asters.....	.35@ .50
Sweet peas.....	.15@ .25
Coronopsis.....	.15@ .25
Galliarda.....	.25
Coruhflowers.....	.25
Smilax.....	10.00@ 12.50
Adiantum.....	1.00

	ST. LOUIS, July 23.
Roses, Beauties, long.....	10.00
" short.....	4.00
" select stock.....	3.00
" general stock.....	1.00
Carnations.....	1.00
Valley.....	3.00
Coruhflowers.....	.25
Daisies field.....	.15
Sweet peas.....	.25
Asters.....	1.00
Hollyhocks.....	.50
Gladolus.....	3.00
Smilax.....	10.00@ 15.00
Ferns, Adiantum.....	1.00

GEORGE A. SUTHERLAND,
 Successor to PECK & SUTHERLAND,
 Successors to WM. J. STEWART,
Cut Flowers & Florists' Supplies
WHOLESALE.
 67 Bromfield St., BOSTON, MASS.
 New England Agent for the GREAT ANTIPEST.

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 MENTION
 THE
 AMERICAN
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 EVERY TIME
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John I. Raynor,
 49 WEST 28th STREET,
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SPECIAL EXTRA STOCK OF
 AM. BEAUTY, METEOR,
 BRIDESMAID, BRIDE.
 Grown particularly for summer trade.

DISBUDDED CARNATIONS.
FANCY GRADE.

CUT FLOWERS.
SELECTED STOCK

— AND —
NOVELTIES.
THOS. YOUNG, Jr.,
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WHOLESALE
FLORIST,
 39 West 28th Street, NEW YORK.

Roses shipped to all points. Price list on application.

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 34 W. 29th Street, NEW YORK,
WHOLESALE • FLORIST.

Careful Shipping to all parts of the country.
 Price list on application.

Purdy & Blauvelt,
 WHOLESALE DEALERS IN
CUT FLOWERS,
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Good Flowers
 ARE HARD TO GET
 IN MID-SUMMER.
 FOR CHOICE STOCK SEND TO
JOHN YOUNG,
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 WHOLESALE, COMMISSION,
 408 E. 34th Street,
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 53 West 30th St., NEW YORK CITY.

MILLANG & CO.,
WHOLESALE FLORISTS,
 501 Sixth Avenue,
 CORNER 30TH ST., NEW YORK.
 Consignments Solicited.

The Seed Trade.

AMERICAN SEED TRADE ASSOCIATION.

T. W. WOOD, Pres.; ALEX. RODGERS and J. B. RICE, Vice-Presidents; A. L. DUN, 114 Chambers Street, New York, Sec'y and Treas.

NEW YORK.—Wm. Hayt, representing Cleveland Seed Co., sailed for Europe on City of Berlin July 22.

J. C. VAUGHAN received a lot of French Roman hyacinths on July 19, the earliest ever received in this country.

F. W. RITTER's seed store at Dayton, O., was closed by the sheriff July 16 on judgments amounting to \$1,782.

THE SHERIFF of Manitowoc county advertises a sale Aug. 12 of peas and beans,—stock formerly belonging to the N. B. G. Co.

Greenhouse Building.

Fall River, Mass., Lannigan & Woodcock, one commercial house 25x125.

Wakefield, Mass., H. E. Wiley, one commercial house.

Portland, Conn., Mr. Sellow, range of six commercial houses.

E. Walpole, Mass., Mr. Anderson, one commercial house.

New Milford, Conn., G. H. Bassett, enlarging one house.

Chester, Pa., Shaw Bros., rebuilding.

Spring Valley, N. Y., Frank Schwalm, two commercial houses.

Shiremanstown, Pa., John F. Rupp, range of commercial houses.

Pittsfield, Me., A. J. Loder, one commercial house.

Plainville, Conn., Mrs. C. E. Woodford, one commercial house.

Moravia, N. Y., C. M. Jennings, one conservatory.

Philadelphia, Pa., Hugh Walsh, one commercial house.

Planting Stock

IN

ROSES,
FERNS,
SMILAX.

German Pansy Seed.

PRICE LIST ON APPLICATION.

DAN'L B. LONG, Jobbing Florist,

BUFFALO, N. Y.

PALMS
AND
FERNS.

The LARGEST STOCK west of New York.

GEO. WITTBOLD, 1708 N. Halsted St., CHICAGO.

TOBACCO DUST

* 399 A BBL.
H. A. STOOHOFF.
315 MADISON AVE., NEW YORK CITY.

SMILAX.

Good, strong plants, October sown, \$1.75 per hundred; \$15.00 per thousand.

Cash with order. Samples 10 cents.
GEO. MUNICH, Batavia, N. Y.

VAUGHAN'S
INTERNATIONAL PANSY MIXTURE

THIS mixture is composed of the choicest selections from nineteen American and European Specialists in Fancy Pansy Seed-growing, and is unquestionably The Best General Mixture in Existence. This is the Pansy mixture for every Florist who would realize the highest prices for his flowers and plants. It contains the cream of the cream of every noted Pansy growers' product the whole world over.

The Pansies growing for this mixture have been repeatedly personally inspected by us in the fields, and we thus became acquainted not only with the quality of the general assortment of each individual grower, but we also make selections of their choicest varieties. Thus it can be readily understood that we are in position to make up The Finest Combination of kinds in the world, and this we are doing each year with our "International Mixture." It contains, besides all the choicest German Pansies in their wide range of beautiful colorings, the Giant Sorts in variety, with

many Pink, Red, Chocolate, Slate and other Novel Shades. It contains all the separate colors of The Giant Trimardeans, with their immense flowers and rich colors. It contains the Giant Cassier and Bugnot strains, the product of celebrated Scotch strains, the Falaise and Boulogne Giants, in fact, there is no strain of any of the celebrated Pansy Specialists not represented in our INTERNATIONAL MIXTURE. Price, per oz \$10.00; ½ oz. \$5.00; ¼ oz. \$1.50; trade pkt. 50c. (Less 10 per cent. for cash).

GIANT PANSIES.

Giant Trimardeau, white, large white with a violet center. Pkt. 25c; ¼ oz. 60c; oz. \$4.00.

Giant Beaconsfield, pkt. 25c; ¼ oz. 60c; oz. \$4.00.

GIANT TRIMARDEAU IMPROVED. This strain contains all the new colors of Trimardeau. Pkt. 25c; ¼ oz. 45c; oz. \$3.00.

GIANT CASSIER, a very choice variety of colors, each flower is marked with 3 or 5 blotches, pkt. 25c; ¼ oz. 75c; oz. \$5.00.

GIANT BUGNOT, the flowers are of enormous size, perfectly round, of great substance. Our "Bugnot" contains shades of red, bronze and reddish brown that are not found in any other mixture, pkt. 50c; ¼ oz. \$1.00; oz. \$6.00.

AURORA, a new pure white giant, pkt. 50c.

GIANT GOLDEN QUEEN, new, golden yellow without any blotches, pkt. 50c.

Giant Paris Pansy Mixture.

The flowers of this strain are as large as the Trimardeau and far superior in color and in substance of petals; having a stout and stiff flower stem. Oz. \$4.00; ¼ oz. \$1.20; ½ oz. 60c; pkt. 25c.

VAUGHAN'S GIANT PANSY MIXTURE.—This mixture comprises all the above strains and colors, and will give satisfaction to everyone whose trade demands Pansies with large flowers. Per oz. \$5.00; ¼ oz. \$1.35; trade pkt. 50c.

VAUGHAN'S PREMIUM PANSIES, MIXED.—Embracing many shades and colors. Pkt. 25c; ¼ oz. \$1.00; ½ oz. \$3.25; oz. \$6.00.

CHICAGO PARKS BEDDING PANSIES.—Many colors mixed. 4 ozs. \$3.00; oz. \$1.00; ¼ oz. 30c; pkt. 10c. Write for list of separate colors.

NEW YORK: VAUGHAN'S SEED STORE, CHICAGO: 14 Barclay St. 84-86 Randolph St.

SMILAX PLANTS AT REDUCED RATES.

We will sell 2-INCH STOCK at \$1.50 per hundred.

We will sell 2 1-2 INCH STOCK at \$2.00 per hundred.

This offer stands for a short time only. Our July Catalogue is ready, have you received a copy?

WISCONSIN FLOWER EXCHANGE, MILWAUKEE, WIS.

H. Wrede,
LUNEBURG, GERMANY.
PANSY SEEDS.

128 First Prizes, the highest award.
World's Fair, 4 Prizes.

A FINE ASSORTED COLLECTION 50c.
1000 Seeds, finest mixed, 25c.
1 oz. \$3.75

Price List on application. Cash with order.
Mention American Florist.

PANSY SEED.

If you want the finest large and fragrant Pansy flowers, TRY WOODBURY'S noted seeds.

A FINE ASSORTED COLLECTION 50c.
Finest German and Giant-flowered French strains blended, or either separate, 2000 seeds 50c; ¼ oz. \$1.00; oz. \$3.00.

DAVID B. WOODBURY,
Pansy Specialist, South Paris, Me.
Mention American Florist.

TWO REMARKABLE BERRIES.

STRAWBERRY-RASPBERRY,
LOGAN BERRY (Raspberry-Blackberry)

We are headquarters for them. Also Golden Mayberry and Sacaline, home-grown plants. Bottom prices for gilt edge stock.

THE LOVETT CO., Little Silver, N. J.

SMILAX.

VERY FINE STRONG PLANTS, 2½-inch pots, \$2.50 per hundred.

GEO. SOUSTER, Elgin, Ill

BULBS

For Fall Delivery.

Give us your wants, and will quote you price that will give you a living profit.

WM. ELLIOTT & SONS,

—NEW YORK.

Mention American Florist.

ZIRNGIEBEL'S GIANT MARKET
AND GIANT FANCY

PANSIES

are the Leading Strains up to date. Extra Large Size and Superb Colors. Liberal trade packets of either strain at **ONE DOLLAR EACH**. *Separate colors if wanted in Blue, Black, White and Yellow.

DENYS ZIRNGIEBEL,
NEEDHAM, MASS.

Mention American Florist

Roemer's Superb Prize Pansies.

The finest strain of Pansies in the World.

Introducer and Grower of all the leading Novelties.

Catalogue free on application.

FRED ROEMER, SEED GROWER,
Quedlinburg, Germany.

C. H. JOOSTEN, Importer,
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SPECIALTIES.

Bulbs, Azalea Indica, Palms, Roses,
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Fruit Tree Stocks.

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SEEDS

... FOR THE ...
Garden and Farm

Vegetable and Flower Seeds. All the newest and best varieties—quality unsurpassed. Illustrated Catalogue FREE.

WEEBER & DON, Seed Merchants
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EXTRA PANSY SEED.

MAMMOTH SUNBEAM STRAIN.

A grand collection of plant flowering varieties, very large, of perfect form and choice colors; carefully selected and exceedingly fine. My customers write that this is the finest strain of pansies they can get; requires no better evidence of superiority. Every florist should sow of this improved strain.

Trade pkt. 500 seeds, 25 cts.; 3 pkts. (20 cts.); 6 pkts. \$1.00. A pkt. of 500 seeds of the new giant yellow pansy will be added to every \$1.00 order.

JOHN F. RUPP, Shiremanstown, Pa.

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FOR OUR

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VAN ZANTEN BROTHERS, Hillegom, Holland.

Extra quality of **HIGH GRADE FORCING BULBS AT LOW PRICES.** We now book orders for **Azalea Indica, Palms, etc.** The largest collection of sundry bulbs and plants.

APPLY FOR WHOLESALE CATALOGUE.

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This Year's Crop, Now Ready.

Our superb mixture contains only the choicest fringed strains, and will give the greatest satisfaction. Trade pkt. 50c.

Cineraria Seed.

Our strains are unsurpassed for richness of color as well as for size and perfection of form. Trade pkt. 50c.

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Near Long Island Ferry, NEW YORK.

Agent for LYSOL, the ideal insecticide.

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WE ARE HEADQUARTERS ON

BULBS FOR FORCING,
FLOWER SEEDS FOR FLORISTS
ENGLISH MUSHROOM SPAWN.

Special prices on application.

JOHN GARDINER & CO., Seedsmen,
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LILIUM HARRISII

NOW READY.

5—7 inch circum., per 100 \$2.00; per 1000 \$17.50

7—9 inch circum., per 100 \$4.00; per 1000 \$38.00

Best stock grown in Bermuda.

Prices on all other Bulbs on application.

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MY NEW PRICE LIST

of Hyacinths, Tulips, Lilies, Daffodils, Valley, Spiraea, Azaleas and other Forcing stock is now ready and may be had for the asking. Send for a copy.

G. C. WATSON,

43 North 10th St., PHILADELPHIA.

Pansy Seed.

The Cunningham strain of finest mixed, equal to any strain in America.

½ oz. \$2.00; 1 oz. \$4.00; 3 ozs. \$11.00.

CASH WITH ORDER.

JOS. H. CUNNINGHAM, Delaware, O.

Mention American Florist.

Pansies Worth Raising.

Everybody knows them. Everybody likes them. And they are sold by millions.

NEW SEED READY NOW—1½ ounce \$1.00; ½ ounce \$2.50; 1 pound \$50.00.

CASH WITH ORDER.

G. SOLTAU & CO., 199 Grant Ave., Jersey City, N. Y.

CELERY

PLANTS. Strong and stocky, \$1.00 per 1000. Safe arrival guaranteed. Special low express rates.

Index of "How to Grow Celery Anywhere." Post free. Send for it.

PETER J. SCHUUR, Kalamazoo, Mich.

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Branch of The Horticultural Co., Boskoop, Holland, CLEMATIS, RHODODENDRONS, AZALEAS, MAGNOLIAS, BULBS, Etc., Etc. Ask for prices.

PALM SEEDS

On hand in splendid condition.

	Per 100	Per 1000	Per 5000
Areca lutescens	\$1.50	\$10.00	\$47.50
Areca rubra	1.50	10.00	47.50
Geonoma gracilis	1.75	12.00	55.00
Geonoma Schottleana . .	1.75	12.50	60.00

Non germinating seeds will be replaced. Our Palm Growers' Guide free on application.

SCHWAKE SEED CO. (Inc.)
404 East 34th St., NEW YORK.

ROSES, VIOLETS, DRACENAS, CUT SMILAX EXTRA FINE STOCK.

	Per 100
Roses La France, 3-Inch	\$4.00
" Brides, 3-inch	4.00
" Brides and Bridesmaids, 2½-inch	2.50
Violets California, 3-inch	7.00
Dracenas, 4-in Australis & Indivisa	15.00
Smilax, cut per doz n,	\$2.00
" "	15.00

Poehlmann Bros.,

MORTON GROVE, Cook Co., ILL.

Mention American Florist.

PANSY X SEED.

The Jennings strain of finest American grown Pansy Seed. New crop ready June 15th. The grandest combination of colors ever sent out.

The largest flowering.

The strongest growing.

and the most beautiful colors in great variety.

Very finest mixed:

Pkt. of 2500 seeds, \$1.00; ½ oz. \$3.00; 1 oz. \$6.00;

3 ozs. \$15.00. White and yellow in separate pkts., same as above. Half pkts. 50 cts.

CASH WITH ORDER.

E. B. JENNINGS, L. B. 254, Southport, Conn.

Grower of the finest Pansies.

Columbia Farm Offers

30,000 5 to 7 and 7 to 9 inch LONGIFLORUM bulbs,

10,000 9 to 11 inch HARRISII bulbs.

2,000 11 inch and up HARRISII bulbs.

20,000 FREESIA bulbs, ¼ to ½ inch in diameter.

AMARYLLIS JOHNSONII; OXALIS ROSEA;

GLADIOLUS SHAKESPERE. Apply at once.

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AZALEAS
BEGONIAS
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SPECIAL OFFER.

TOEFFAERT & GEE,

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Liverpool, England.

PALMS, ARAUCARIAS, BAYS, &c

Mention American Florist.

PRIMULA.

BEST SORTS, 2-inch pots Per 100 \$3.00

CINERARIA.

BEST MIXED SORTS, 2-inch pots 2.00

G. LENGENFELDER,

Berleau and Western Avenue, CHICAGO.

Pittsburg.

There has been no improvement in trade here this week; business being very quiet, but notwithstanding the very bad weather this month, only eight days without rain, and a rainfall of more than six inches over the normal amount, the volume of business done has been greater than last summer, and to that extent our florists are content. Flowers are plenty, gladiolus and asters coming in rather freely now and of good quality. Nearly all the florists are at home yet; many of them will not go away until the convention week, taking it in as part of the summer outing.

Julius W. Ludwig has gone to North East to the Lake View Camp; he intends making the tour of the lakes and will meet the club at Cleveland in August in time for the bowling contest.

Mr. James Semple of Bellevue had a very fine collection of gladiolus in market this week, many of them the new varieties with blooms measuring over five inches.

Miss Huscroft, one of Steubenville's florists, was a visitor this week; reports trade there as fairly good. Mr. Wienkler with W. W. Barnard & Co. of Chicago was also with us. REGIA.

San Jose, Cal.

Trade during school commencements which have occurred lately was all that could be desired. Sweet peas were used in large quantities and the stores did a big business, especially Chas. C. Navlet and Edw. W. Parsons. Lady Penzance sweet pea is the favorite here as it is in San Francisco. Lilies and roses were in demand at the time also. However since that rush is over business has settled down to its normal state at this season of the year. Chas. Navlet's new store is always tastefully and artistically decorated.

Mrs. Dunlop, who had a store at 11 E. Fernando street, closed up last month and has gone out of business.

At Mr. E. Bourguignon's place everything is looking well and healthy. This place is noted for its fine roses during the winter months. Mr. Bourguignon also makes a specialty of cyperus of which he grows thousands and ships quite a lot to the east every summer.

Mr. Edw. Parsons has moved from his old stand to the more commodious store formerly occupied by Mrs. Dunlop. This step was necessary on account of the increasing business. At Mr. Parson's greenhouses at 10th and Market streets, everything is looking excellent especially the roses, carnations and palms. The sweet peas here are also looking very good. Mr. Smeke Parker is in charge here. METEOR.

Allentown, Pa.

Geo. Ellsworth & Co. have added two additional fair sized houses to their plant; they intend also to give their other houses some overhauling.

Kratz & Shelley have built a violet house, covering 100x12. HOMO.

Rose Plants.

2½-In. per 100 3-In. per 100

BRIDESMAID.....	\$3 50	\$6.00
THE BRIDE.....	3.50	6.00
K. A. VICTORIA.....	3 50	6.00

All in prime condition for planting.

BROWN & CANFIELD,
Springfield, Ill.

SPECIAL OFFER OF ROSES.

All varieties (except Meteor) in 2½-inch pots, \$4.50 per 100.

This offer is good for a few days only.

WISCONSIN FLOWER EXCHANGE, Milwaukee, Wis.

Herr's Pansies

My customers tell me are the **BEST STRAIN** grown either in this country or Europe.

Why bother with seed when you can buy plants of this strain any time after Sept. 1st.

\$5.00 per thousand; 75 cts. per hundred.

Write for circular. It will pay you to get acquainted with my Pansies and Rooted Cuttings

L. B. 496.

ALBERT M. HERR, LANCASTER, PA.

CHRYSANTHEMUMS

FROM 2-INCH POTS. Per 100

900 Mrs. H. Robinson.....	\$5 00
100 Mrs. H. McK. Twombly.....	3 00
100 Niveus.....	3 00
200 Marion Henderson.....	3 00
400 Miss M. M. Johnson.....	3 00
300 Mayflower.....	3 00
600 Mrs. Jerome Jones.....	3 00
100 Minerva.....	3 00
300 Lady Playfair.....	3 00
100 J. H. Troy.....	3 00
100 October Beauty.....	3 00
200 W. H. Lincoln.....	3 00
100 M. R. Dean.....	3 00
100 Flora Hill.....	3 00
100 Mrs. C. H. Payne.....	3 00
300 Mme. F. Bergmann.....	3 00
100 Agnes L. Dalskov.....	4 00
100 Mutual Friend.....	3 00
100 Her Majesty.....	3 00
100 Harry Balsley.....	3 00
200 Geo. S. Conover.....	3 00
200 Mrs. E. G. Hill.....	3 00
200 Wm. Simpson.....	4 00

Those ordering 250 plants or over may deduct 50 cts. per 100 from these prices.

We also have several thousand in smaller quantities which we are closing out at \$2.50 per 100, or 250 for \$5.00. Our selection. Cash with order.

These quotations are for immediate acceptance. We only agree to furnish, if stock is unsold on receipt of order.

NATHAN SMITH & SON,
ADRIAN, MICH.

FERNS IN VARIETY.

Just the thing for this Fall. Well established in 2-inch pots. Adiantum from flats.

Field-grown CARNATIONS in season.

Write for varieties and prices.

EDGEWOOD GREENHOUSES,
GLENSIDE, PA.

FERNS

Pteris Serrulata. Densa.
Nana.
Tremula. Smithiana.
Adiantoides.

Adiantum cuneatum and pubescens.
Nephrolepis tuberosa.

50 for \$2.00; 100 for \$3.00; 500 for \$15.00; 1000 for \$27.50; 2000 for \$50. Cash with order. All out of 2½-in. pots

C. F. BAKER, Utica, N. Y.

JUST OUT.

In new and improved form. Present size of buckle fits any 1½-inch strap, old or new; requiring no stitching or riveting to mount it. Other sizes not yet made. Invented and patented by a rose grower to save labor, effort, patience, time and straps. Ask for

STANDARD BUCKLE.

A sample mailed to any address on receipt of 30 cents.
FRANK L. MOORE, Chatham, N. J.

PALM

Seed.

FRESH

ON HAND

	Per 100	Per 1000
Areca rubra.....	\$1.25	\$10.00
Cocos Wedde thana.....	1.50	12.50
Geonoma gracilis.....	1.50	12.50
" Schottiana.....	1.50	12.50
Coffea arabica (coffee tree).....	1.50	12.50

All Chamberops, Phoenix and many others now in stock. A full list on application.

FOR AUGUST DELIVERY.

Kentia Belmoreana.....	\$1.25	\$10.00
Kentia Forsteriana.....	1.25	10.00

J. L. SCHILLER, Rutherford, N. J.

When writing mention the AMERICAN FLORIST

A fine lot of

BRIDE AND BRIDESMAID ROSES,

Now ready, out of 2½ and 3-inch pots.

Also a nice lot of

CALIFORNIA VIOLETS,

out of 2½-inch pots. Write for prices.

H. D. ROHRER, Box 344, Lancaster, Pa.

SPECIALTIES

IN BEST VARIETIES.

ROSES, from 3-inch pots.

CARNATIONS, for fall delivery.

CHRYSANTHEMUMS.

SMILAX.

VIOLETS.

Prices low. Send for list.

WOOD BROTHERS, FISHKILL, N. Y.

THE COTTAGE GARDENS,

C. W. WARD, Mgr.

QUEENS, L. I., N. Y.

WHOLESALE SPECIALTIES:

Carnations, Chrysanthemums,
Cannas, Geraniums.

CARNATIONS

Rooted cuttings all sold.

FIELD-GROWN PLANTS
IN SEASON.

Address **CHAS. CHADWICK,**

Lock Box 11, GRAND RAPIDS, MICH.

CARNATIONS A SPECIALTY.

Rooted Cuttings. Young Plants. Field Grown Plants in season. Write for prices.

GEO. HANCOCK & SON, Grand Haven, Mich.

CARNATIONS.

F. DORNER & SONS CO.,

LA FAYETTE, IND.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Young Rose Plants.

The following stock was grown for our own use and is guaranteed first-class in every respect:

1000 BRIDES, 4-inch pots,	4c
400 BELLE SIEBRECHT, 2½-in. pots,	4c
1000 BRIDES, 2½-inch pots,	3c
1000 BRIDESMAIDS, 2½-inch pots,	3c

Also a few BRIDES and BRIDESMAIDS, in 3-inch pots, at low figures.

BASSETT & WASHBURN,
HINSDALE, ILL.

Rogers Park Floral Co.

GOOD FIRST CLASS STOCK.

In 2½-inch pots	per 101	per 1000
Kaiserin Victoria.....	\$4 00	\$35 00
Belle Siebrecht.....	4 00	35 00
Bridesmaids	3 00	25 00
Brides.....	3 00	25 00
Meteors.....	3 00	25 00
Meteors, 4 inch pots.....	5 00	40 00

Orders for less than 100 not accepted.
Ready for shipment now.

Send Orders to 41 Wabash Ave., Chicago.

Roses. Roses.

SURPLUS STOCK.

	Per 100
700 MERMETS, 3-inch pots.....	\$4.00
500 BRIDES, 2½-inch pots.....	3.00
300 BRIDESMAIDS, 2½-inch pots.....	3 00

ALSO A FEW QUEENS, ETC.

HANNAH & CUNNINGHAM,
GRAND RAPIDS, MICH.

1000 Mermets, 500 Brides,

From 3½-inch pots.

Extra fine stock, at \$5.00 per 100.
CASH WITH ORDER.

GEORGE A. HEINL, Toledo, Ohio.

ROSES.

BRIDES, BRIDESMAIDS and MERMETS,
\$3.00 per 100; \$25.00 per 1000.
LA FRANCE, BRIDES and BRIDESMAIDS, 3 in.
\$5.00 per 100; \$45.00 per 1000.
25 at 100, and 250 at 1000 rates.

R. F. TESSON,

West Forest Park, ST. LOUIS, MO.

FOR SALE.

Stock extra fine,
strong and clean.

150 BRIDESMAIDS.....	4-inch
175 ".....	3-inch
500 BRIDES.....	4-inch
125 PERLES.....	4-inch
175 ".....	3-inch
375 SMILAX, strong.....	3-inch
325 ".....	2-inch
175 CYPERUS ALTERNIFOLIUS.....	3½-inch

JAMES C. MURRAY, 401 Main Street, Peoria, Ill.

A FEW HUNDRED EXTRA FINE

LA FRANCE, METEORS and
BRIDESMAIDS, at a bargain.

100 Fine BELLE SIEBRECHT.

All ready for 4's. Wire your orders.

GEO. A. KUHL, Pekin, Ill.

Forcing Roses.

GOOD PLANTS.

BRIDES, BRIDESMAIDS, NIPHETOS, PAPA
GONTIER, MERMET, SAFRANO, \$2 50 per 100
I. L. PILLSBURY, Calesburg, Ill.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

ROSES FOR WINTER FORCING

ALL FIRST-CLASS, WELL CROWN STOCK.

2½-in. pots, per 100.	STOCK:	3½-in. pots, per 100.
\$4.00.....	PERLE.....	\$10.00
4.00.....	BRIDE.....	10.00
4.00.....	BRIDESMAID.....	10.00
4.00.....	METEOR.....	10.00
4.00.....	LA FRANCE.....	10.00
4.00.....	GONTIER.....	10.00
4.00.....	DUCHESS OF ALBANY.....	10.00
5.00.....	SUNSET.....	11.00
6.00.....	KAISERIN.....	12.00
6.00.....	TESTOUT.....	12.00
6.00.....	SOUV. DE WOOTTON.....	12.00
8.00.....	AMERICAN BEAUTY.....	14.00
8.00.....	BELLE SIEBRECHT.....	14.00
8.00.....	MRS. PIERPONT MORGAN.....	14.00
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GREENHOUSES, WESTERN SPRINGS, ILL. **VAUGHAN'S SEED STORE,** 84 & 86 RANDOLPH STREET, CHICAGO.

Roses, Roses & Roses.

All the best NEW and STANDARD varieties for winter forcing now ready in A1 stock, and of

MRS. PIERPONT MORGAN,

the most profitable known variety for forcing, and of the easiest possible culture I have a grand lot now ready. Write for special prices on this variety for large lots to

JOHN N. MAY, Summit, New Jersey.

30,000 FIRST QUALITY FORCING ROSES.

READY FOR IMMEDIATE PLANTING.

Fully equal to those sent the last four years, first-class and perfectly healthy in every respect. Only selected growth from flowering shoots used in propagating.

WOOTTON,	LA FRANCE,	BELLE SIEBRECHT,
3-inch pots, \$3.00 per 100.	4-inch pots, \$12.00 per 100.	
METEOR, MERMET, BRIDESMAID,	KAISERIN A. V., PERLE, 3-inch pots, \$7.00 per 100.	SUNSET, NIPHETOS, BON SILENE, BRIDE,
		4-inch pots, \$10.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

ROSES

MERMETS, CUSINS, TESTOUTS, NIPHETOS, BRIDES, BRIDESMAIDS, METEOR, HOSE, WATTEVILLES, AUG. VICTORIA, 2 3 and 4-inch pot plants. Cash with order. Owing to number booked, they will be executed in rotation to assure prompt delivery.

Order early.
Address for quotations, VILLA LORRAINE ROSERIES, MADISON, NEW JERSEY.

AMERICAN BEAUTY, METEOR, BRIDESMAID, BRIDE, TESTOUT, PERLE, M. LOUISE VIOLETS, 2½, 3 and 4 inch. CALIFORNIA VIOLETS, 2½, 3 and 4-inch. ASPARAGUS PLUMOSUS, 3 and 4-inch.

A. S. MacBEAN, Lakewood, N. J.

ROSES.

Good, strong 2½-inch stock.	Per 100
MARY WASHINGTON.....	\$2 00
MRS. DEGRAW.....	2 00
GOLDEN GATE.....	2 50
MME. C. TESTOUT.....	3 00

CASH WITH ORDER.

NATIONAL PLANT CO., Dayton, O.
Mention American Florist.

SMILAX.

Strong plants from last fall, \$3.00 per 100
Young good plants..... 2 00 per 100

CLEMATIS.

A fine assortment for fall. Prices on application.

F. A. BALLER, Bloomington, Ill.
Mention American Florist.

Adiantum Farlyense

EXTRA FINE PLANTS.

In the various sizes.
Prices upon application.
EDWIN LONSDALE,
Wyndmoor, near Chestnut Hill,
(Station H.) PHILADELPHIA, PA.



You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

Palms, Ferns & Roses.

17 3 to 4 inch PALMS for \$3.00.
10 4 to 5-inch PALMS for \$3.50.
MONTHLY and TEA ROSES, ADIANTUM and
SWORD FERNS, LABELS, MOSS, Etc.

SEND FOR LIST.

WILLIAMS & SONS CO., Batavia, Ill.

CHRYSANTHEMUMS.

All the choicest novelties and the cream of the standard varieties. A limited quantity of fine, healthy plants at reasonable prices. Let us know your wants.

Carnation plants all sold.

H. WEBER & SONS, Oakland, Md.

Siebrecht & Wadley's PALMS, FERNS AND ORCHIDS.

We give you good value for your money.

Rose Hill Nurseries, New Rochelle, N. Y.

ROSES. FIRST-CLASS STOCK.

Meteors and Brides, 4-inch, \$6.00 per hundred.

CRABB & HUNTER, Grand Rapids, Mich.

Worcester, Mass.

The summer dullness is upon us and trade is very quiet with the exception of funeral work of which there has been considerable in a small way. We are getting plenty of flowers with the exception of good roses, but as there is no call for them we don't mind. Peas are getting very plentiful and soon will be a glut, as everybody who has a square foot of garden plants peas, and consequently no one makes a cent; one florist (so called) is selling peas for two cents a bunch (25). Carnations have held up nicely and are just beginning to show the effects of the hot weather, but are still plentiful and sell as well as anything. Carnations in the field are looking fine; we have been fortunate in getting enough rain so far. The planting of chrysanthemums will about equal last year's, but more early varieties and but very few late; they went begging last Christmas.

The weekly exhibitions of the Horticultural Society are keeping right up to the standard and are being very well attended. At this week's show (July 16) the following first premiums were awarded. Display cut-flowers, F. A. Blake, floral basket, H. A. F. Lange; display of petunias, F. A. Blake. A number of gratuities were given for meritorious exhibits not scheduled.

H. F. A. Lange and wife are spending a month in Nova Scotia. A. H. L.

Shamokin, Pa.

Mr. Geo. W. Parmley has moved into his new store, located at the intersection of Independence and Orange streets, two of the most prominent thoroughfares in town and in the very heart of the business center. The store has a frontage of 50 feet, the whole being taken up by four French plate show windows, each 9x11 and a massive French plate glass door. Besides the store proper Mr. Parmley has fitted up a large and commodious room on the second floor and a basement. The whole place is lighted by electricity and presents a most attractive appearance.

A rather novel feature introduced is that of hoisting up or letting down the refrigerator into the basement from one of the windows. This feat is accomplished by means of an ingenious device, a sort of "crank" which looks almost automatically. Everything else about the place, the counters, show cases, etc., is arranged with a view to convenience and adaptability. HOMO.

Wilkes-Barre, Pa.

Mr. I. G. Marvin's additional range of houses is nearing completion. Among other things which Mr. Marvin intends growing on a larger scale than heretofore will be chrysanthemums; of these he will have over fifteen thousand plants, some of the best kinds and varieties known having been introduced. A very prominent society wedding, during the past week, has kept Mr. Marvin quite busy. Aside from the elaborate church and house decorations there were a number of bouquets and boutonieres furnished, the bridal bouquet consisting of fine orchids arranged with swainsona. Each of the bridesmaids carried a handsome bouquet of sweet peas, as did also the flower girls. HOMO.

BLOOMINGTON, ILL.—Mr. Frank L. Washburn of A. Washburn & Son, was married to Miss Belle Aldrich of the same city June 24. After an extended wedding trip they will be at home to friends after Aug. 15.

S. A. F. TRADE EXHIBITION,

CLEVELAND, O., AUGUST 18, 19 and 20, '96.

Illustrated advertising skillfully executed is the highest type.

An **EXHIBIT** to the **TRADE** is more than an illustrated adv., **IT IS THE VERY ESSENCE OF BUSINESS.**

APPLY AT ONCE FOR SPACE AND OTHER INFORMATION.

E. H. CUSHMAN, Euclid, O.

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Now is really the time to order.

Write at once to **JOSEPH DEFILIPPI, OLLIOULES, (Var), FRANCE**, who will mail you latest prices and special rates for wholesale. Samples free on request. English correspondence. No agent in America. MENTION THIS PAPER.

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13 Green St., BOSTON, MASS.
Office, 84 Hawley St.

Manufacture the Best Letters in the Market.

Sizes 1½-inch and 2-inch, \$2.00 per 100. Patent fastener with each letter.

With orders for 500 letters we give away a nicely stained and varnished box. See cut in next week's American Florist.

Our letter is handled by all the wholesalers in Boston. AGENTS: A. Bolker & Sons, New York; M. Rice & Co., 25 N. 4th Street, Philadelphia, Pa.; F. E. McAllister, 22 Dey St., N. Y.; H. Bayersdorfer & Co., Philadelphia, Pa.; A. D. Perry & Co., 33 Warren St., Syracuse, N. Y.; A. C. Kendal, 115 Ontario St., Cleveland, O.; E. H. Hunt, 79 Lake St., Chicago; Wisconsin Flower Exchange, 131 Mason St., Milwaukee, Wis.; H. Sunderbruch, 4th and Walnut Sts., Cincinnati, O.; T. W. Wood & Sons, 6th and Marshall Sts., Richmond, Va.; Jas. Yick's Sons, Rochester, N. Y.; Dan'l B. Long, Buffalo, N. Y.; C. A. Kuehn, St. Louis, Mo.; Huntington Seed Co., Indianapolis, Ind.; W. Ellison, 142 Pine Street, St. Louis, Mo.; A. Herrman, 415 E. 34th St., New York; Geo. A. Sutherland, 67 Bromfield St., Boston; Welch Bros., No. 1A Beacon St., Boston; N. F. McCarthy & Co., 84 Hawley Street, Boston; The Henry Philipps Seed and Implement Co., Toledo, O.; Walter A. Potter & Co., Providence, R. I.; J. C. Vaughan, 28 Barclay St., New York. J. A. Summers, Toronto, Ont., Agent for Canada.

H. BAYERSDORFER & CO.,
WHOLESALE
FLORISTS' SUPPLIES ONLY,
58 N. 4th Street,
PHILADELPHIA, PA.

Our new Catalogue is now out, free upon application.

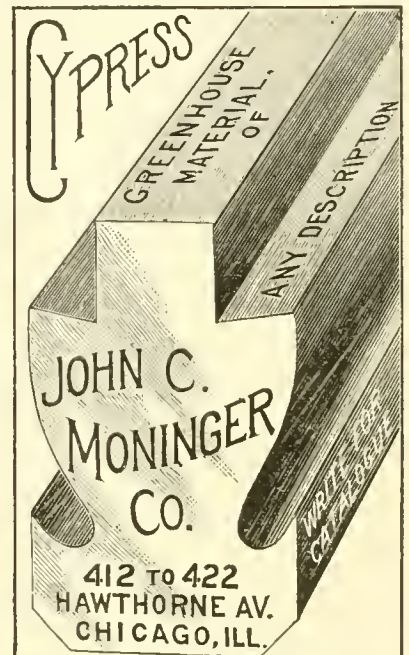
M. RICE & CO.
Importers and Manufacturers of
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25 N. FOURTH STREET,
PHILADELPHIA, PA.

Special price for your wants on application.

John Conley & Son,
Manufacturers of
TIN FOIL
2 AND 4 DOMINICK STREET,
New York.

RAFFIA.
Direct from the packers.
AFRICAN FRENCH COLONIES.
Before buying elsewhere apply for quotations to
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105-107 Hudson St., NEW YORK CITY.

Always mention the American Florist when writing to advertisers.

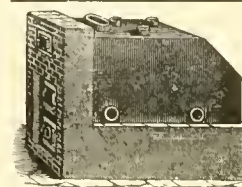


"ROSE LEAF"
Extract of Tobacco
INSECTICIDE!
PRICE: 1 gallon can, \$1.50; 5 gallon can, \$5.00.
Applied either by vaporizing or by syringing. Try it.
LOUISVILLE SPIRIT CURED TOBACCO CO.,
LOUISVILLE, KY.

GLASS

which is absolutely perfect for modern greenhouse construction.
ROCK BOTTOM PRICES.
Send for Estimates. Satisfaction Guaranteed.

REED GLASS CO.,
102 South 5th Avenue. NEW YORK CITY.



GREEN-HOUSE HEATING.
MYERS & CO.
1518 & 1520 S. 9th St.
PHILADELPHIA.
Send for catalogue and price list.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

THE ANNUAL CONVENTION NUMBER

— OF THE —
American Florist

WILL BE ISSUED

August 15.

In addition to the usual convention matter it will contain a series of elaborately and richly illustrated articles on the use of Hardy Plants, showing the Florist not only how to use these plants to the satisfaction of customers but how to make them a source of profit.***

This last should receive the earnest attention of the trade at this time, for the growing demand for Hardy Plants can not with wisdom be ignored. It should be met in such a way as to bring the most returns to the Florists' cash drawer. In our Convention Number we shall give the views of the ablest men in the trade on this subject and will include many illustrations that will be very useful to the *Florist* in presenting the subject of Hardy Plants intelligently and profitably to his customers.***

This issue will reach every possible trade buyer of consequence in America and will have great permanent value to the advertiser, but there will be no increase over our regular rates, which are.***

FULL PAGE.....	\$42.00
HALF PAGE.....	21.00
QUARTER PAGE.....	10.50
FULL COLUMN.....	14.00
HALF COLUMN.....	7.00
ONE INCH.....	1.40

Subject to time discounts where advertiser has time contract with us.***

Send Orders **EARLY** so we may have abundant time to get them up in our best style.***

AMERICAN FLORIST CO.

322 Dearborn Street,

CHICAGO.

Atlantic City, N. J.

The florists of this lively town by the ocean do not seem to experience any lack of business. The season has indeed proved a most prosperous one, decorations of some sort or other having kept the florists quite busy. The dedication of the new board walk, which took place on Wednesday the 8th inst., terminated in a grand banquet at the St. Charles Hotel. Florist D. B. Edwards had the decoration in charge. In addition to numerous palms and plants there were plenty of cut flowers used. Red roses, white carnations and daffodils were used to good advantage in working out the city colors, red, white and blue.

Mr. Edwards has recently received a respectable sized check from the government in payment for the work performed on the grounds surrounding the light house.

Among the many other attractions within and around Atlantic City, the light house with its beautiful surroundings are not the least to draw visitors.

The season is now at its height. The hotels are crowded, the stores are busy and the florists seem to get their fair share.

HOMO.

Bridgeport, Conn.

Bridgeport florists report the best season for bedding plant trade ever experienced. Funeral work has been abundant of late and good prices have prevailed. One of the most effective flower beds in the city is a very large bed of *Strobilanthes Dyerianus* in front of the residence of James Horan. It is the central attraction of a very showy and well kept establishment and in a location close to the N. Y. N. H. and H. R. R. where it is admired by thousands of people daily. Mr. Jas. Horan's illness incapacitates him from active work but his son is pushing business vigorously and three new houses are being erected, two of them iron framed by Thos. W. Weathered's Sons. There are 100,000 carnations in the field.

Middletown, Pa.

Bauder Bros. who equipped their plant some two years ago, have a good paying local trade; they find quite a demand for their flowers from the surrounding towns and villages. Roses and carnations of the standard varieties are the flowers principally grown. They intend enlarging their plant and growing for the wholesale market.

HOMO.

SEND Advs. Now

FOR OUR

CONVENTION
NUMBER

To be issued August 15.

FLOWER POTS.

We Manufacture all kinds of Flower Pots, etc.
Making a Specialty of

Florist Standard Pots

Send for price list and samples (which will be sent free), and we know you will give us your order.

J. G. SWANN'S SONS, P. O. Box 78,
Minneapolis, Minn.PLEASE mention the AMERICAN FLORIST
every time you write to an advertiser.

WIND MILLS FOR PUMPING.

FAIRBANKS—GALV'D STEEL.

ECLIPSE—WOOD.

50,000 Already Sold.

BOILERS FOR HEATING.

VALVES, PIPE AND FITTINGS.

FAIRBANKS, MORSE & CO.

Cor. Franklin & Monroe Sts., CHICAGO.

H. M. HOOKER COMPANY,

57 and 59 W. Randolph Street, CHICAGO.

NATURAL GAS MADE GLASS.

FOR GREENHOUSES.

Write for latest prices.

STANDARD FLOWER POTS.

Send for our new price list, with extra discounts. All of our Pots from 7-inch and upwards have our Patent Excelsior Bottom, which is a great advantage as it insures perfect drainage.

A FULL LINE OF BULB PANS.

THE WHILLDIN POTTERY COMPANY, 713 to 719 Wharton Street, Philadelphia, Pa.

BRANCH WAREHOUSES: { Kearney and Westside Aves., Jersey City, N. J.
{ Jackson Ave. and Pearson St., Long Island City, N. Y.

STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere. Our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Dopfel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopfel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

SYRACUSE POTTERY CO. 403 North Salina Street, SYRACUSE, N. Y.

OFFICE:

THOS. W. WEATHERED'S SONS,
INCORPORATED.

Horticultural Architects and Hot Water Engineers

Send for Catalogue, enclosing 4 cents in stamps.

139, 141, 143 Center St., NEW YORK.

GLASS

For Greenhouses, Conservatories,
Graperies, Hotbeds, and all other
purposes, at Lowest Rates.

GLASS

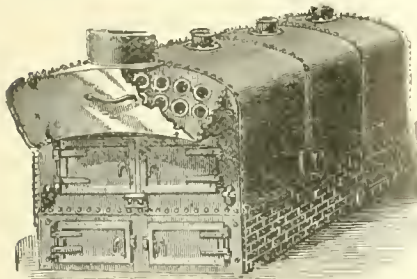
N. COWEN'S SON, 392 & 394 W. Broadway, NEW YORK.

Get our Figures before buying Glass.

Estimates freely given.

You will benefit the American Florist
by mentioning it every time you
write an advertiser in these columns.SAVE YOUR \$ \$ \$ by using our
HANDY SASH LIFTER.For prices, apply to
GEO. W. HAMILTON, 176 Sidney St., Dorchester, Mass.

Kroeschell Bros. Co.
IMPROVED
Greenhouse : Boiler,
29 to 59 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back.) Write for information.

CYPRESS

IS MUCH MORE DURABLE THAN PINE.

**CYPRESS
SASH BARS**

UP TO 32 FEET IN LENGTH OR LONGER.

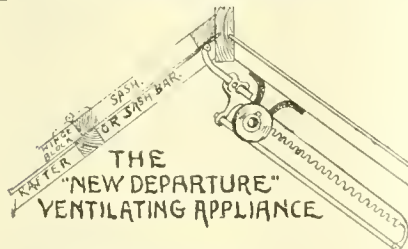
GREENHOUSE

AND OTHER BUILDING MATERIAL.

Send for our Illustrated Book
"CYPRESS LUMBER AND ITS USES."
Send for our Special Greenhouse Circular.

THE A. T. STEARNS LUMBER CO.,
NEPONSET, BOSTON, MASS.

When writing mention the AMERICAN FLORIST



J. D. CARMODY, Evansville, Ind.

Dear Sir:—Enclosed find remittance for ventilating appliance. I find it the best, cheapest and easiest to work I ever handled—no exceptions whatever.

Yours truly,

J. E. JACKSON, Gainesville, Ga.



EVANS' IMPROVED

**Challenge
Ventilating
Apparatus**

Write for Illustrated Catalogue.

QUAKER CITY MACHINE WORKS,
Richmond, Ind.

IMPROVED GLAZING!
GASSER'S ZINC JOINTS

Makes a roof Air and Water Tight. No lapping. No breakage from frost or medium sized hail. Saves fuel.

GASSER'S IMPROVED PUTTY MACHINE—all metal. Most practical and lasting Putty Machine in use. Price, \$2.00. Cash with order.

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J. M. GASSER, Florist,
101 Euclid Avenue, CLEVELAND, O.

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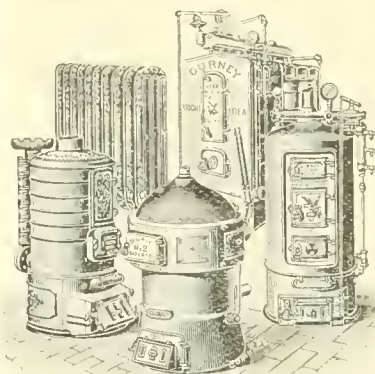


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We have had many years' experience in this line. We introduced Cypress for greenhouse construction. We have made many improvements in the construction of greenhouses. We carry in stock many different designs of Rafters, Sash Bars and everything else from the bottom of gutters up. Our facilities are large, and we are prepared to furnish on short notice material of our own designs or any special designs, and all of open-air-dried clear Cypress Lumber which we have bought for many years of one party because this particular growth of Cypress is as soft as White Pine, and has none of the knots, sap and other defects so common to White Pine. Every foot of our stock is guaranteed Spot Clear. Write for circulars and estimates. No trouble to furnish plans when necessary.

LOCKLAND LUMBER CO

LOCKLAND, O.



**HOT • WATER • HEATERS
AND
STEAM • BOILERS.**

They possess to the highest degree the essential elements of construction which place them in the foremost rank for GREENHOUSE REQUIREMENTS.

CAPACITIES FULLY GUARANTEED.

Send for Catalogues.

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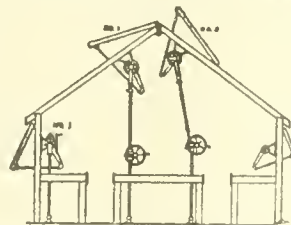
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163 Franklin St., Cor. Congress, BOSTON, MASS.

STANDARD VENTILATING MACHINE.

NONE
EQUAL IT
IN
Strength
AND
Durability

Send for Catalogue.



E. HIPPAHD, YOUNGSTOWN, OHIO.

NOTHING
Flimsy
OR
Complicated
about it.



CALIFORNIA RED CEDAR
NEVER DECAYS.

A. DIETSCH & CO., 619 Sheffield Ave.,

MFR'S OF RED CEDAR AND CYPRESS
GREENHOUSE MATERIAL.

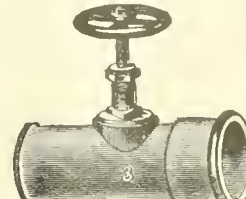
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**DeLamater-Rider and
DeLamater-Ericsson
Hot-Air Pumping Engines**

Will pump water from any source, and force it to any height and distance. Simple, safe and free from care. Will burn any kind of fuel. For supplying water on farms, country and city residences, dairy and stock farms they are unsurpassed. Send for catalogue.

THE DELAMATER IRON WORKS,
467 West Broadway, N. Y. City.



**VALVES,
FITTINGS
AND
VENTILATING
APPARATUS.**

**COLDWELL-
WILCOX CO.,**
Newburgh, N. Y.

MAIL

For Insurance against
damage by hail,
Address

JOHN G. ESLER, Sec'y, F. H. A., Saddle River, N. J.

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THE NEW

Directory

IS NOW READY.

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TEXARKANA, ARK.—M. S. Stegall is building two houses each 20x100.

CANONSBURG, PA.—H. B. Thompson has entered business here as a retail florist.

LOUISVILLE, KY.—Henry Pittelko has started in the florist business, corner of Payn and Jane St.

DEERFIELD, N. Y.—The business formerly conducted by E. T. Hermant is now in the hands of Jos. Soder, who was formerly Mr. Hermant's manager.

HEADQUARTERS
FOR
Natural
prepared
CYCAS LEAVES
EQUAL
TO FRESH CUT
Prices per Pair
70¢ 80¢ 90¢ 1.00 1.20 1.50
AUGUST RÖLKER & SONS
136 WEST 24TH ST. NEW YORK

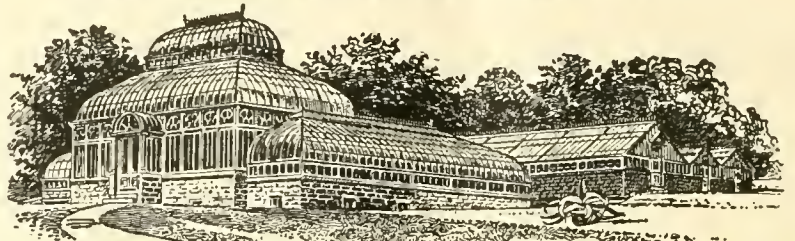
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For 1896
IS NOW READY.
Price \$2.00.
AMERICAN FLORIST CO.,
CHICAGO.

Hitchings & Co.

ESTABLISHED 50 YEARS.

HORTICULTURAL ARCHITECTS AND BUILDERS

AND LARGEST MANUFACTURERS OF
GREENHOUSE HEATING AND VENTILATING APPARATUS.



THE HIGHEST AWARDS RECEIVED AT THE WORLD'S FAIR FOR HORTICULTURAL ARCHITECTURE, GREENHOUSE CONSTRUCTION AND HEATING APPARATUS.
Conservatories, Greenhouses, Palm Houses, etc., erected complete, with our patent Iron Frame Construction. Send four cents postage for illustrated catalogues.

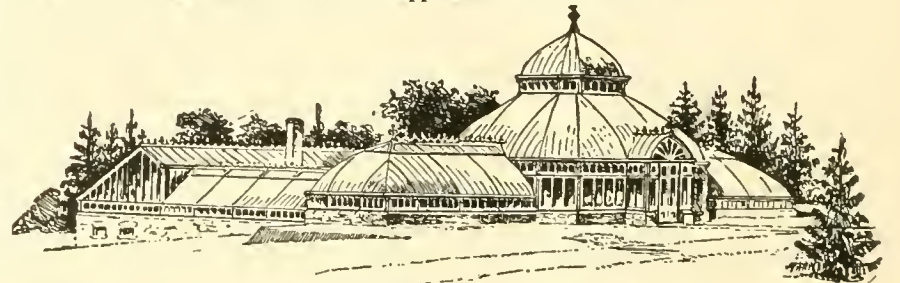
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LORD & BURNHAM CO.,

Horticultural Architects and Builders,

STEAM AND HOT WATER ENGINEERS.

Plans and estimates furnished on application.



Largest builders of Greenhouse Structures. Six highest Awards at World's Fair.
SEND FOUR CENTS POSTAGE FOR ILLUSTRATED CATALOGUE.

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COR. TWENTY-FIRST ST.,
FACTORY: IRVINGTON-ON-HUDSON, N. Y.

The products of combustion in the

"SPENCE" HOT WATER HEATER

are not allowed to reach the smoke-pipe in a direct line. They are obliged to travel over and around the water so many times (see cut showing arrangement of flues through which heated gases pass) that when they finally leave the heater they have imparted all their available heat to the water. This of course means economy in the consumption of fuel.

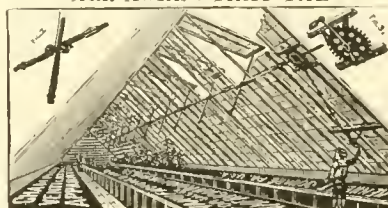
American Boiler Company

NEW YORK: 94 Center St.

CHICAGO: 84 Lake St.

CATALOGUE FREE.

MANY MEN OF MANY MINDS
ALL AGREE THAT THE



CHAMPION VENTILATING APPARATUS

IS THE

Lightest, Most Durable, Most Efficient and Cheapest

Apparatus on the market. Send for circular.
AMERICAN ROAD MACHINE CO., Kennett Square, Pa.

SEND ADS. NOW

FOR OUR

CONVENTION NUMBER,

TO BE ISSUED

AUGUST 15.



Carnation Notes.

I advocate an early transfer to the houses, and now is the time to get everything in readiness to take advantage of circumstances. If we are prepared to take advantage of probably a few days' cool weather for the transfer, it may save much perspiration and the plants much wilting. We must have an eye for everything that may tend to bring the plants over their period of transplanting as quickly as possible, and to have everything in readiness will prove the greatest help to accomplishment.

At our place we shall commence transplanting, if circumstances are favorable, by the 15th or 20th of August. We commence that early for several reasons. The main object is early blooms, to advance the season altogether, to have most flowers in the winter months. We had this past season an abundance of flowers, more than ever before through the late spring months, at the expense of the winter time, when flowers are mostly wanted, and all on account of our backward stock and some late planting. One other reason to commence this early, is to have this important work done by my experienced hands, even the handling of the soil. And I cannot expect to do this work in one day or one week, or be just favored with the right kind of weather when I am ready. No, I have to be ready when the favorable time appears, do the work in an understandingly careful way, and get done even with the last house in time.

The object in view is to be ahead of time, which can only be of benefit, and to have time to spare for selection of the most suitable days for this important work, which must be beneficial again.

FRED DORNER.

Enriching Carnation Soil.

I have sod soil piled up one year for my carnations. What can I add to it to encourage growth? Have plenty of sheep manure if that will add to the value of soil, or would bone meal be best?

Illinois.

W. J. M.

Rotted sod certainly will make the best soil for most any plants, but for carnations much depends on the texture of the soil the sod has grown on, and I much prefer the sod from land that has been under cultivation for some time than new land. As to the texture of the soil a clay loam is preferable, and sod cut on such soil will when decayed be of the very best quality, and any fertilizer, as sheep manure, cow or horse manure, if well decomposed, can be added, relative to its strength. Bonemeal, fine horn shavings (these will decay quicker than bone) are very beneficial, but would advise to use these very judiciously; the same with wood ashes, and a little sprinkle of common salt. These, especially ashes and salt, it is better to apply later with some top dressing or in liquid manures. If the sod is cut on sandy soil or black prairie soil, and clay loam is obtainable, I would use half and half, or one part clay loam to two of sod, according to the heaviness of the sod, with addition of manures

as mentioned above. If the sod is piled up it would be well to spread it more and expose it to the effects of wind and weather; at the same time have all the fertilizers thoroughly mixed in ready for the bench. In the matter of manures one has to use a good deal of judgment as to the quantity required. Of strong manures, as sheep and hen manure, too much may very easily be given, while some others may not contain half the nourishment we give it credit for, and are in this way very deceiving. Most of the time we are groping in the dark; experiment has to be our guide, and I believe a judicious use of different manures in proportionate quantities will give better results than only one kind used exclusively.

FRED DORNER.

Carnations Dying Back.

Why do our McGowan carnations in the field after making an apparently healthy growth of about three or four inches wither and die back to where they started from? They all seem to be eaten by some insect around the base of the branch. Can it be the work of ants? At the roots of nearly every plant affected there seems to be a nest of ants. Any suggestions you may make on the above will be greatly appreciated by

Pennsylvania.

D. H. M.

It is rather a difficult thing to arrive at a correct diagnosis without seeing the plants. If eaten it must be done by some insects, but hardly think the ants are the perpetrators. The real ones are probably drawing the ants, the same as mealy bugs and aphids do. I would advise Mr. M. to examine a little closer if he cannot find any other insects but ants, and if so an application of some tobacco extract diluted with water will very likely be the remedy.

FRED DORNER.



Chrysanthemum Notes.

Some of the plants are now beginning to show a bud that looks very much like a crown bud, accompanied as it is by side growths, but it is yet too early to select a bud for a good bloom. These should be carefully picked out and the strongest shoot selected and carried on until it in turn sets its bud. We have always had failure with buds selected before the 21st of August, they producing flowers with the lower petals all twisted out of shape, in fact the bloom is apt to look more like a swab than a chrysanthemum flower, and if it is of a pink or red shade it will be badly faded and nobody would be able to recognize it or call it by name.

But it will be soon time to take the buds, and as I find that there are many persons who do not yet know which is a crown or terminal bud, it might not be out of place to describe the two and note the difference. Mr. Elmer D. Smith in his paper read before the Society of American Florists at the convention in St. Louis described both buds very fully, and those having the copies of the proceedings of S. A. F. for 1893, or a file of the trade journals for that year can turn back and

see the illustrations printed, which will show them conclusively the difference between the two buds.

The crown bud makes its appearance from August 1st to September 15th, and sometimes a little earlier or later, depending a great deal upon the time when the plant was struck and its subsequent culture, and the different varieties all vary as to the time of the setting of this bud. Its greatest length is perpendicular and immediately it is set by the plant three growths make their appearance around it, on some varieties all three starting from the same point at the foot of the bud stalk and on others at the base of the upper leaves. The bud sets on the top of a long flower stalk and as the stalk lengthens, from its side will often grow what look like small malformed leaves.

The terminal bud, which sets much later, takes its name from the fact that it is the end of growth of the stem. The greatest length of this bud is horizontal and is accompanied by a number of smaller buds which surround it. This is the bud which forms the flower on the bush plants, or in fact on all plants that are allowed to pursue their own course, for the growths that surround the crown bud take all the strength of the plant, and it soon shrivels up and disappears.

The plants should now be kept well tied up and looked after carefully that they do not get dry. The benches are full of roots and the strong growing plants, aided by the hot sun, soon draw out the moisture in the soil. Keep the plants well syringed, for the wood should be kept soft, and it assists greatly in keeping down the insects. Keep the side growths that appear up the stem carefully picked off, so that the main shoot can receive all the strength of the plant, and also all suckers that appear at the base of the plant. These should be very carefully removed, for if done carelessly great injury is sometimes done to the root of the plant.

ELIJAH A. WOOD.

Murraya Exotica.

There is frequently a demand for orange blossoms at a season of the year when orange trees have long passed the blooming period, and no efforts seem to be made by florists to supply this deficiency. In the *Murraya exotica* a good substitute is found for material for bridal bouquets, and although this plant has been introduced in Europe more than a century ago and cultivated in the United States by a few amateurs for at least fifty years, still it seems to be almost unknown in the florist trade, as well as its value ignored.

It is an evergreen shrub, native of India and sub-tropical Australia. In Bengal it is known as China-box and Kaminee. Linnaeus classed it with the order of Aurantiaceae but subsequently it has been included in the order of Rutaceae. In European collections it is also known as *Chalcas paniculata*. Well-grown plants attain a height of 8 to 10 feet; its habit is bushy, but should be annually slightly pruned to keep it in a more compact form, then its foliage increases in size and the neat shining dark green color of its pinnae leaflets intensifies. During summer and fall at irregular periods, it produces a profusion of corymbs of orange-blossom-like flowers, and although these last but a few days they scent the air all around with a delicate honey-like fragrance. Each crop of flowers is succeeded by numerous small oblong red berries, not unlike those of the holly, and being retained during winter add to the attractiveness of the plant as well as affording



MURRAYA EXOTICA.

decorative material. The berries are edible and have a pleasant aromatic flavor.

Murraya needs ample pot room and a liberal supply of plant food. An annual application of bone meal when repotting in February intensifies the color of the foliage, increases the size of the flowers and causes it to bloom more frequently. When properly treated the first crop of flowers usually appears here during May; another during July and this is succeeded at intervals of from four to six weeks until fall. For winter give it the temperature of a cool greenhouse, but during summer it thrives best when given full sunshine outdoors, when it brings out its delightfully fragrant crops of flowers.

P. J. BERCKMANS.

Fruitland, near Augusta, Ga.

Fern Notes.

GYMNOGRAMMES.

Although this genus includes some of our most beautiful ferns, there are few that are of much service for ordinary decorations, their great drawback being that they do not stand well. Some of our florists use the best varieties of the gold ferns and silver ferns for choice work, and if plants are in good condition they will stand fairly well. Cut fronds are also used to some extent, especially the best forms of gold ferns. It is not necessary to give a long list of sorts. *G. chrysophylla* and *G. Lauchiana* are the two best golden varieties. *G. Alstoni*, which has all the pinnules curled inwards, so the golden under surface is shown off to advantage, is a most desirable variety. The best crested varieties are *Parsoni* and *chrysophylla grandiceps*. Of the latter we have a fine variety named *superba*, in which the golden farina (or powder) covers both the under and upper surface of the fronds, and is of a very rich golden color.

Of silver varieties the best is *G. Peruviana argyrophylla*, the true form of which is heavily covered with silvery white farina, on both under and upper surface of the fronds. *Mayi* is a good variety of more vigorous growth, but not quite so white. *Wettenhalliana* and *multiceps* are

the best crested forms; both of these vary considerably and are not so white as *Peruviana*. *G. Martensi* makes a good pot plant and is very free. The surface of the fronds is of a deep green, and under surface slightly covered with pale yellow. *G. tartarea* differs in having a white under surface to the fronds.

All the gymno grammes come freely from spores, and among seedlings considerable variation will be found. It is very essential to select the very best forms for saving spores from. With care they may be kept fairly true; but the fact that among large batches we get all shades from the pure white of *G. peruviana* to the deepest golden of *chrysophylla* will prove how difficult it is to fix their parentage. The spores germinate very quickly; if they are not found in the first crop it will be useless to keep the seed pots. *Martensi* often proves a very troublesome weed among other sorts.

They all require stove treatment and should be grown singly. They succeed best in a light peaty compost and require good drainage. After the plants are well established a little manure may be given, but this should be used carefully. Being of rather slow growth and making comparatively few roots, they often suffer through being overpotted. Carefully treated, they may be grown on into large specimens, but they are never more effective than when large enough for a 6-inch pot.

Like other stove ferns, they may be gradually hardened off when large enough for decoration, and will then last much longer than when taken from a high temperature. When grown for cut fronds the plants should be grown to a good size before they have any fronds cut, as young plants will be very much weakened by taking the matured fronds. A. H.

Scale on Ferns.

I have some sword ferns infested with black scale. It starts with a little dark brown spot, then turns black; it is somewhat similar to scale affecting oleanders. I have had to cut the ferns down several

times on account of it. Could you give me a remedy? D. M.

Santa Rosa, Cal.

Scale insects on ferns are rather difficult to treat with an insecticide, from the fact that the fronds are liable to injury. Dipping in a solution of "Lemon Oil" insecticide may be tried if the foliage is fully developed and hard, but if this fails (and such a result is quite probable) then hand cleaning with a sharpened stick and a small piece of sponge is about the only reliable method. If the plants are badly infested it would pay better to throw them away and procure a fresh stock.

W. H. TAPLIN.

Philadelphia.

Oh for a breeze from Greenland's icy mountains, it would be very acceptable at this writing, for it is very warm hereabouts; wonder what the Lake Erie breezes are like. It might tempt a few more at present doubtful candidates for the journey, if they were guaranteed cool and refreshing.

The business nowadays is not worth speaking about, the volume is so exceedingly small. Although many of the growers have ceased coming to town, save an occasional trip after that "little" balance there is enough stock floating about to save the dealers the annoyance of sending to the country for it when needed. La France, Testout, Meteors and Kaisers are fairly good and plentiful at \$3 per hundred, Beauties 75 cents to \$1 per dozen, carnations 50 to 75 cents per hundred, asters 75 to \$1, sweet peas 3 to 5 per bunch of 25 sprays.

Evans the ventilator man is about, keeping an eye on the new houses now going up in this neighborhood; he reports a good business. The Quaker City wheel and chain is certainly a familiar sight in the greenhouses in this locality.

Horticultural Hall is rapidly approaching completion, and as the scaffolding comes down the handsomely decorated walls and ceilings give an idea of the beauty of what the completed building will be like. The fine artistic surroundings should be an incentive to make the next chrysanthemum show the finest ever given by the society. The splendid quarters of the Florists' Club will no doubt infuse new life into the organization and a large increase both in interest and membership is confidently expected.

While business is so dull a little more attention is given to the pastimes of the business. Those interested in base ball are meeting to decide the relative merits of their teams. Thus far the Craigs have not suffered a defeat, having won once from the Dreer club and defeated the Chestnut Hill team twice. The second game was played last Saturday, the score being 17 to 11. The Craigs have a pitcher named Lord; it is to be presumed that with such a powerful ally their record for the season will remain untarnished.

The shooters have had another go for the Donaldson medal, with the result that Edward Reid wears it for the second time, sharing honors with George Craig in this respect. A. B. Cartledge gave him a hard chase, tying him at the first 25 targets, but in the second series he won with a score of 23 to 21. The shoot at the Caledonian games will no doubt be a great contest, 7,000 targets have been ordered and it is feared there will not be enough.

John Gardiner & Co. have given up the retail department of their business and will confine themselves hereafter entirely

to the wholesale trade. Their fixtures, which were complete in every respect and especially adapted for a retail seed store, have been purchased by the Farquhar Brothers of Boston.

David Landreth & Sons have closed their branch store at Delaware avenue and Arch street.

The craft lose a good friend in Robert Scott, who died July 23, aged 78. He retired from active business some ten years ago, but there are many who remember with pleasure his kind and genial manner. He was one of the oldest members of the Horticultural Society, being elected a life member in 1848. By strict attention he built up a large and profitable business which is continued by his son Alexander Scott.

Mrs. John Nisbet died and was buried last Saturday.

John Burton gave a trolley party to Willow Grove Park last Thursday in honor of Mrs. M. Thomas and her daughter of Baltimore, who are spending a few days in this city. K.

OBITUARY.

ROBERT SCOTT.

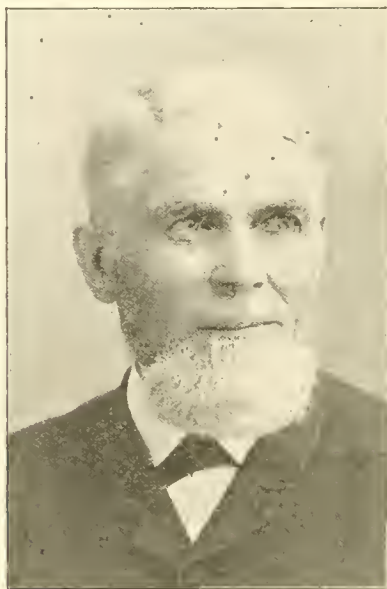
Robert Scott, one of the oldest florists of Philadelphia, died on Wednesday evening July 23, at his home, of general debility. Mr. Scott had attained the ripe old age of 78 years, he being born in Lanarkshire, Scotland, in 1818. He came to this country in 1847 to accept the position of foreman for Robert Buist, which place he occupied for two years, when he bought out a florist named Rementer and established himself at 18th and Wharton streets this city. Mr. Scott was a strict Presbyterian and would transact no business of any kind on the Sabbath day. When Mr. Rementer heard of his determination he informed him that he would surely not succeed, as he had found it hard work to make both ends meet, and Sunday had always been his best day. Mr. Rementer proved a poor prophet, however, as Mr. Scott always referred with pride to the fact that he had a balance of \$1,000 on his first year's business, and his observance of the first day of the week in this respect was strictly adhered to throughout his business career.

In 1858 Mr. Scott purchased the ground at 19th and Catherine, where he has since conducted a very successful business. It might be mentioned here that he was succeeded in his old place by Mr. Craig, the father of Robert and George Craig, where they received their first training in the business.

Mr. Scott was of the old school to which James Ritchie, Robert Buist, Mr. McKenzie and John Dick belonged, of these Mr. Dick now alone remains. He was a large grower of camellias, azaleas and roses. His stock of the latter during the period from 1860 to 1875 averaged about 40,000 plants annually, and while now this is not looked upon as large, at that time it was the most extensive in the country. He was one of the first to issue a descriptive catalogue of the roses and while he seems not to have originated any new kinds he was fully up to the times in his selection of the best varieties of the European growers. About 1880 his son Alexander was given an interest in the firm and an extensive addition to the plant was erected at 18th and Jackson and the cultivation of roses for sale as plants was conducted on an extensive scale.

In 1885 Mr. Scott retired from active participation in the business, which has

since then and will now be continued by his son. He was one of the oldest members of the Penna. Horticultural Society, and took a great deal of interest in its affairs, serving as a judge for a number of years. When in active business in all his dealings with the trade Mr. Scott was the soul of honor and his mild and genial disposition made fast friends of all those whose good fortune it was to come in contact with him. Many a poor member



THE LATE ROBT. SCOTT.

of the craft, a seeker for work, had reason to bless him for his generous help and advice.

Mr. Scott was married twice, his widow, two daughters and one son survive him. K.

Montreal.

If your readers have not heard from us for some time they must not think we are less alive than usual. Your correspondent has been so much engrossed in his own private affairs that he could not find time to even think of anything else. Although I have not met a florist who said he has had more business than he could attend to the past spring, I believe, everything considered, there was little to complain about. The plant trade was very satisfactory, everyone getting pretty well cleared out. Some complaints were heard in the early part of the season about price cutting on the part of a few nervous growers, who, finding themselves with a larger stock than last year, imagined that to dispose of it prices should be lowered, never taking into account the steady increasing demand for good bedding plants in our city, in common with all other cities which are growing as ours is. An evil which the legitimate plant grower of Montreal has to contend with is the quantity of plants (rubbish if you will, but plants all the same) which are put on the market by the public institutions. These institutions enjoy advantages in the shape of exemption from taxation, cheap labor, etc., which enables them to put goods on the market at a price with which the florist, who has to pay the full price for everything he requires, cannot compete.

The season has been exceedingly favor-

able to the production of outdoor flowers; sweet peas are good and abundant; asters and gladiolus are also plentiful and of fine quality. Carnations are rather scarce now, as are also roses; the latter are of very poor quality.

Most of the planting is done now, and the quantity of 'mums on the benches in this vicinity far exceeds any former year.

I have not heard of any new glass going up here this summer; the feeling is that there is about enough already. One thing is certain, that there is more money invested in glass here than is paying interest.

The prize list for the chrysanthemum show has been in the hands of the members of the club for about a month; copies may be had by applying to Mr. Fred Bennett, secretary, Montreal G. and F. Club, 255 St. Martin street.

Final arrangements were completed at the last meeting of the club for the exhibition of sweet peas and asters, which will take place at the next meeting of the club on the first Monday in August. Prizes will be offered for the best 50 blooms white, 50 pink, 50 blooms mixed and 25 ditto, and the largest and best collection, 12 blooms of each, all with foliage; asters, 6 blooms white, 12 blooms ditto, and 12 and 24 blooms mixed—the flowers must be staged by 7:30 p. m.

The members of the G. & F. Club, with their friends, held their annual picnic at Isle Grosbois on the 22d, and it was thoroughly enjoyed by all present. The amusement consisted of a cricket match, a football match, quoit match and a long program of races for the members, their wives, daughters and children, all of which were well contested and came off very satisfactorily. Among those who distinguished themselves before the wickets was Walter Mott, the popular representative of Henry A. Dreer Co.

The chances are favorable for Montreal to be well represented at the convention of the S. A. F. this year. BEAVER.

Toronto.

The excursion of the Gardeners' and Florists' Association and the Horticultural Society to the Model Farm at Guelph on Wednesday last was a great success, and it is safe to say that every one of the sixty-five who attended returned home well satisfied with the day's outing. It was certainly the best summer affair that has yet been held. All the farm officials, from the president and professors down, treated the visitors with the utmost cordiality, and gave them an insight into the working and objects of each department. The president in a short speech after lunch said that it was the intention to devote more attention to horticulture than had been done in the past. The visitors wandered all over the farm and examined the outside farm experiments, the fine cattle, the poultry, the dairy and cheese factory and their machinery. Mr. Squirrel, the outside gardener, showed them everything of interest in the park, vegetable and fruit garden and herbaceous borders, all of which looked most flourishing and in the best of condition and apple order. The greenhouses and flower garden under Mr. James attracted a great deal of attention, especially the former. The large conservatory contains many very large and fine specimens of palms, greenhouse flowering and foliage shrubs and plants, all looking very clean, bright and healthy. The stove also and three other houses contain many objects of interest and are run in a manner which shows that Mr. James



GROUP AT THE PICNIC OF THE ST. LOUIS FLORISTS, JULY 25.



THE ST. LOUIS FLORISTS' GUN CLUB, JULY 25.

is a man who thoroughly knows and loves his business. After having "done" the farm, many of the boys drifted down to the town and indulged in an hour or two of conviviality and frivolity. In the words of one of the company "everybody spread themselves but nobody wobbled."

Thanks, President Scott—I am sure there will be a Canadian contingent at the convention this year; certainly Toronto will do her best to send over her complement. We have been rather backward in coming forward at the late conventions, but I think that owing to the short distance and low fare we should show up in good force this year. E.

St. Louis.

The great event of the season among the florists and their friends has come and gone, with nothing but pleasant recollections; the third annual picnic of the St. Louis florists, held at Clifton Terrace, Ill., Saturday, July 25. A special train started at 8:25 a. m., two others following at 12:30 p. m. and 1:45 p. m. In all about 300 florists, including growers, store and commission men, with their wives, children and sweethearts, participated in the outing, and not one could be

found who said he did not have a good time.

The feature of the picnic was the band of negro jubilee singers. The orchestra gave delightful music for the dancing, which was participated in by the younger class. The youngest florist at the picnic was Charlie Kuehn, Jr., and the oldest was Luther Armstrong. The committee, composed of J. W. Kunz, Fred Weber, Emil Schray, Charles Young and J. J. Beneke, had mapped out a program for the day, and were busily engaged putting same into execution. The first event was the three-legged race; this was won by Will Holtz and George Augermuller, both employes of C. A. Kuehn. Next in order was the 100-yard dash; the entries were large, and had to be run in heats; first heat was won by John Manson, and the second by Will Edle. In the final run between Manson and Edle Manson won. The prize was a beautiful silk umbrella. The next race was for boys under 12 years; Herman Weber, son of Fred Weber, won in a walk. The prize was a pocket knife.

Then came the ladies' race, open to all. The first prize was won by Miss Lena Meinhardt, and the second by her sister, Miss Tillie Meinhardt. The shooting con-

test came next, and was managed by the Gun Club; Chas. Young came out first, E. W. Guy of Belleville second. The last item on the program was the most exciting of all, the tug-of-war; the teams were selected by Chas. Young and J. J. Beneke, and Luther Armstrong was selected as referee; ten men were on each side. After a hard pull Beneke's side won.

The bowling match was postponed, and the club will roll for the prize on its alleys at home next week. J. J. B.

New York.

One of the wholesalers referring to the present inactivity in business remarked that "the retailers seem to have neither money nor heart to make any effort," which describes prevailing conditions exactly. Sweet peas, asters and gladioli constitute the greater bulk of the flowers coming in and these are sold for what they will bring. Carnations are small sized everywhere. Roses of good salable quality are not readily found and those who want them have to pay accordingly. Meteor and Kaiserin are in the lead as to quality and price. Lily of the valley is used but sparingly at this season of the year, being in demand only for special occasions and then not in quantity. The growers arrange to have but a few on hand, consequently it is hard to depend on excepting when ordered in advance. A good many tuberose are seen at the market in the morning.

On all sides the complaint of poor collections is heard. It appears to be chronic in cut flower, seed and supply trade alike and applies equally to trade accounts and bills against retail customers. According to the experience of some, drafts are returned unhonored much oftener than they are paid even when drawn on parties of established good reputation. This inability or disinclination to pay bills is unusually noticeable the present season.

Finn, Cole & Co., manufacturers of sash, doors and blinds have made an assignment. They had quite a trade in sash for florists' use.

The sad news comes from Pearl River that John Thorpe, Jr. (son of "Uncle John") has lost both his arms through an accident at the mills where he was employed.

Alex. Burns and family are summering at Sayville, L. I.

Boston.

Arrangements have been completed for the trip from Boston to Cleveland and return via the Hoosac Tunnel and West Shore Railroad to Buffalo and thence to Cleveland by steamer. Train leaves Union Station, Boston, at 3 p. m., Sunday, August 16, and boat arrives in Cleveland at 7 a. m. on Tuesday, all day Monday being available, for those who so desire, to visit Niagara Falls or other places of interest in and about Buffalo. Ticket for the round trip from Boston to Cleveland and return via this route will cost but \$17, and it is hoped that this very low rate together with the many inducements offered on the way and at Cleveland will bring out a large delegation. The Boston people will be glad to have the company of all those from New England, Canada, eastern New York or other sections who may find it convenient to join them. Sleeping accommodations on train and boat will be secured for those who apply early by W. J. Stewart, 67 Bromfield street, Boston.

Harvard Botanic Garden staged a superb collection of hardy herbaceous

flowers at Horticultural Hall on July 25. The brilliant display attracted a crowd of admirers, and labels were industriously consulted and memoranda made for future use. A silver medal was awarded. Sweet peas were the specialty on the schedule. First and second premiums for both display and named varieties were taken by H. A. Jones and E. A. Weeks respectively, and it is somewhat singular that both these exhibitors came from Worcester, the local growers being but slimly represented. Carl Blomberg's show of aquatic flowers filled three large tanks at the head of the hall and comprised many nymphæas, from the tiny *N. pygmaea* roses up to varieties of enormous size, besides pontederias, sagittarias, sedges and grasses, and the graceful *Papyrus antiquorum*, the latter in bloom, a rare occurrence here. This was the date for the first exhibition of native mushrooms, and it brought out several large and interesting collections of fungi, edible and otherwise.

Business is at a standstill, and things are decidedly monotonous. Rarely have the retail stores been so deserted and quiet, even in midsummer, and on all hands unprecedented dullness is reported. Everyone seems to take the situation in a matter of fact sort of way, and all appear to feel that in due time business will pick up all right. Asters are getting plentiful, and pink pond lilies are also abundant; otherwise the stock coming in remains as to variety and quantity about as it has been all through July.

W. A. Bock has pulled down two houses each 20x160, and is replacing them with modern houses of best construction. He has three large houses full of the famous Boston fern.

Visitors in town: H. A. Bunyard, representing Pitcher & Manda, Short Hills, N. J.; Martin Renkauf, representing H. Bayersdorfer & Co., Philadelphia; and S. Skidelsky, representing M. Rice & Co., Philadelphia.

An Ampelopsis Blight.

With this note is sent a sun print of a spotted leaf of *Ampelopsis tricuspidata* (Veitchii).

The leaf shows the destructive work of a leaf fungus bearing the botanical name of *Phyllosticta ampelopsidis* E. & M. In ordinary language it is a "leaf spot" and the enemy that causes it is a minute plant feeding upon the substance of the Japanese Ivy.

It is most likely that the entrance is made through the epidermis of the leaf near the center of what afterwards becomes a brown oval spot. From the point of entrance the threads spread in all directions and sap the tissue of its vitality. After a time the fungus produces its fruit in the form of minute pimples upon or near the surface of the brown and dying substance of the leaf. With a hand lens these dark specks can be easily distinguished, but with a compound microscope these specks are seen to be flask-shaped bodies filled with minute oval bodies that are the spores of the fungus. It is by means of these spores that the fungus is able to spread from leaf to leaf and plant to plant.

The above, in short, is the nature of the ampelopsis blight. It is not difficult to conceive that if this trouble should increase, as it is likely to do, the beauty of this splendid creeper will be destroyed and even the life of the vines endangered. There is no reason why spraying should not be hopefully engaged in, for this enemy is very closely related to the black rot of the grape, which has been success-



AMPELOPSIS BLIGHT.

fully checked by the Bordeaux mixture and other standard fungicides. The orchardist and trucker have learned that spraying pays, and now the gardener must in the same way preserve his susceptible ornamental plants in their health and beauty.

BYRON D. HALSTED.

Rutgers College, New Brunswick, N. J.

Chicago.

See heading "Chicago to Cleveland" for information about railroad arrangements for those who will attend the Cleveland Convention. As the expense of the trip will be inconsiderable a large number should take advantage of this opportunity to not only attend the convention but to see one of the prettiest cities in the country, and in the midst of its centennial celebration festivities.

Trade conditions are still unchanged. First-class rose stock still sells, especially Beauties; Perles are also in demand, but trade is of course very quiet, and rendered still more so by the very warm weather. Carnations vary in price from 50 cents to \$1, most of them being field grown. Some fine indoor flowers have been cut by Mr. Mundt. Sweet peas vary both in quality and price, the latter being from \$1 to \$1.50 per thousand, Swainsona sells for \$1 a dozen bunches, the bunches containing about 15 sprays. It is found very useful for funeral work, and we hear of its filling the place of valley very acceptably for a wedding bouquet. Tuberose are quite plentiful. Auratum is good at \$1 to \$1.50 a dozen. Gladiolus sells for \$4 a hundred, but does not go very quickly; a good deal is coming in. Asters continue the same as last week, and there is the usual abundance of herbaceous stock. Most of the city stores have a somewhat deserted look.

A florist from a neighboring town who was visiting Chicago recently had a somewhat unpleasant experience. Being found in the vicinity of a crooked character for whom the police were looking the innocent florist was arrested, and in spite of the fact that he had no acquaintance whatever with the "tough," he was sent to the Bridewell in default of fine imposed. After a great deal of trouble and red tape he was released at the end of five days through the good offices of Flint Kennicott. Evidently it is not safe for a desperate character engaged in the nefarious

occupation of cultivating roses and carnations to come within reach of our vigilant police.

C. W. Northrup has been visiting his relatives in New Jersey.

The familiar building at 59 Wabash avenue will soon be deserted by the florist fraternity. Winter & Glover, W. E. Lynch and George Piepgras are all moving to more commodious quarters on the second floor of the building 19-21 Randolph street, just east of Wabash avenue. They will all be better situated here, and the change is an advantageous one. The space occupied is considerably larger than in the old building. Mr. Lynch is adding a full line of florists' supplies to his stock, for which increased space was necessary.

Visited Chicago: Louis Bauscher, Freeport, Ill.; J. Austin Shaw, New York.

Syracuse, N. Y.

Those who grow carnations are now very busy getting the houses ready for planting, as the general sentiment amongst the growers is that the earlier they are housed the better. Henry Burt is about the first, having a house 200 feet long already planted with Daybreak and Silver Spray; his plants are in grand shape this year, ranging from 8 to 10 inches through already. Spray always does well on his soil, the texture of the leaves being so tough they are practically rust proof. Stem rot in the field has not been nearly so bad as last year. A very noticeable thing with this disease, if it be cutting bench fungus or not, is that the earliest propagated plants are the ones which suffer most from it.

Louis Guillaume is hustling repairs along at his new place on Salina street and expects to be along with the retailers when trade opens up this fall. Heretofore Mr. Guillaume has been a very successful carnation grower for the wholesale market.

Roses all over are looking very promising. A very noticeable thing is the lack of manure daubed over the beds this season. Some of the growers are at last beginning to believe that stimulants cannot take the place of real strength, and that to make themselves first master of that which promotes health and vigor is the road that leads to success, fine points easily coming afterwards.



BOUGAINVILLEA GLABRA. GROWN BY CHAS. DURHAM, NEWTOWN, O.

The recent rains have caused a transformation with outdoor stuff and flowers are to be had more plentiful; peas are now in their prime and sell fairly well. The cut flower trade is about the same as last week, although the orders are not very large there are quite a number of them.

ALPHA.

In the note of the visit of F. L. Atkins the statement that he represented Siebricht & Wadley was an error. Mr. Atkins is still with Pitcher & Manda.

Cincinnati.

The Cincinnati florists' picnic and outing which occurred Thursday, July 23, is now a thing of the past. Everything passed off smoothly. The contests came off in rotation, except the baseball game and donkey race, which were declared off on account of rain. The bowling contest was the first on program, the College Hill boys winning; highest score 262. Mr. John Fries was in the lead pitching quoits. A beautiful silver cup and other valuable presents were given in the various contests. The committee having charge of the picnic deserves a good deal of credit for their untiring efforts, as everything proved to be a success.

Among the outside florists present were Theo. Bock of Hamilton, Mr. F. Pentland and Mr. Giesy of Lockland, Mr. and Mrs. H. Behrens and daughter of Middletown, Mr. and Mrs. Herrick of Covedale.

The outing was a grand success and will be long remembered.

We regret to announce the death of Mrs. Alb. Heckman of Covington. Mr. Heckman receives much sympathy in his bereavement.

H. SCHWARZ.

Trees Growing in Mercer County, New Jersey

HEIGHT EIGHTY TO ONE HUNDRED FEET.

Liriodendron tulipifera.
Platanus occidentalis.
Taxodium distichum.

SIXTY TO EIGHTY FEET.

Acer dasycarpum.
" rubrum.
" saccharinum.
Betula nigra.
Carya alba.
Castanea americana.
Fraxinus americana.
Gymnocladus canadensis.
Juglans nigra.
Liquidambar styraciflua.
Paulownia imperialis.
Populus alba.

" grandidentata.
Quercus alba.
" bicolor.
" coccinea.
" macrocarpa.
" phellos.
" Robur.
" rubra.

Salix alba babylonica
Ulmus americana.

EVERGREENS.

Picea excelsa.
Pinus strobus.

FORTY TO SIXTY FEET.

Acer platanoides vars.
" pseudo-platanus vars.
" pennsylvanicum.
Aesculus hippocastanum vars.

Ailanthus glandulosa.
Betula alba, lutea, &c.
Catalpa bignonioides vars.
Carpinus betulus vars.
Celtis occidentalis.
Cladrastis tinctoria.
Diospyros virginiana.
Fagus ferruginea.
" sylvatica purpurea.
Fraxinus excelsior.
" nigra.
" sambucifolia.
Juglans cinerea.
" regia vars.
Larix europaei.
Magnolia acuminata.
" cordata.
" macrophylla.
Negundo aceroides.
Nyssa sylvatica.
Prunus pennsylvanica.
" serotina.
" virginica.
Robinia Pseudacacia.
Sassafras officinale, (occasionally, but rarely large enough for the 1st class.)
Tilia Americana, European vars.

EVERGREENS.

Abies Nordmanniana.
" excelsa elata.
Cedrus Libani.
Cupressus virginiana.
Picea orientalis.
Tsuga Douglasii, canadensis.
Thuja gigantea supposedly, but it has never fruited and is deemed "a seed form" of Libocedrus decurrens by Dr. Robinson.
Thuja occidentalis, and several Pinus, such as P. austriaca, P. echinata, P. rigida, etc. No large specimen of P. excelsa has been seen as yet.

TWENTY TO FORTY FEET.

Aesculus hippocastanum fl. pleno.
" flava.
" glabra.
" rubicunda.

Alnus serrulata.
Asimina triloba.
Betula alba vars.
Cercis canadensis.
Cornus florida.
Crataegus coccinea.

" oxyacantha vars.
Ilex opaca.
Koeleria paniculata.
Magnolia conspicua vars.
" glauca.

Ostrya virginica.
Oxydendron arboreum; the best here is over 30 feet.

Prunus in variety.
Pyrus in variety.
Salix nigra.
Tamarix sps. about 35 ft. high, but has suffered during the past three winters. The tree is 25 years old and girths 2 feet 8 inches at three feet from ground.

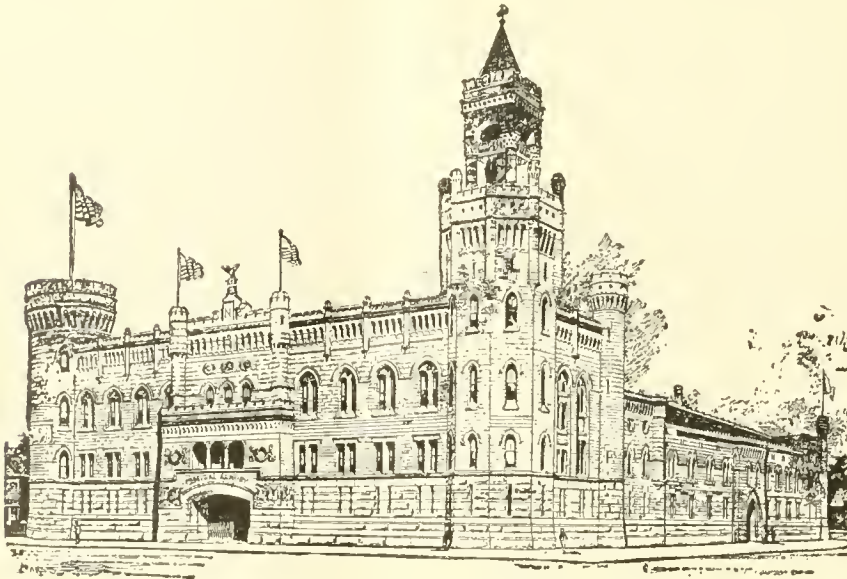
Several examples occur of good sized trees of Rhus semialata, Chionanthus virginica, etc., but the laburnum and a few others stand more here than in western New York.

EVERGREENS.

Cryptomeria japonica.
Cunninghamia sinensis.
Taxus baccata, are all three 20 feet or rather more, but require slight shelter from buildings.
Trenton, N. J. JAMES MACPHERSON.

Late Legal Decisions.

IMPLIED WARRANTY IN SUBSTITUTE FILLING OF ORDERS.—That a sale of an article by a particular description constitutes a warranty that the article answers to that description, is well settled. But the supreme court of North Dakota goes a step farther, and holds that, because, when in response to an order for an article described in a particular way by the purchaser, the seller delivers an article of that general nature, though not fully corresponding with such description, the law regards his act as equivalent to a sale of such article by the particular description set forth in the order, therefore he is to be considered to have warranted that it corresponded to such description. The illustration furnished by the case under consideration, Northwestern Cordage v. Rice, 67 N. W. Rep. 298, is of an order for a quantity of pure Manila twine. The company of which it was ordered having assumed to fill the order, the court holds that it must be deemed to have warranted that the article delivered was in fact pure Manila twine. And, what is of not less importance, the court further holds that the acceptance by the pur-



BUILDING IN WHICH THE TRADE EXHIBITION WILL BE HELD AT CLEVELAND.
[THE TITLE IN LAST ISSUE WAS AN ERROR]

chaser of an article which does not correspond to the warranty, with knowledge of the defect, does not, as a matter of law, bar his right to rely upon the warranty. It is a circumstance to go to the jury, on the question whether there was a breach, and possibly whether the purchaser has not waived his right to insist upon damages for it. This is certainly a remarkable decision in some of its aspects. The court itself seems to realize this, and in anticipation of the applications that may be sought to be made of it in the future, without trying to forestall the exceptions which may have to be made in different cases, the court says that it believes it to be in the interests of justice, and to fairly express the sense of business men upon the subject, that whatever form a warranty assumes, if there is in fact a warranty, the mere acceptance of the property will not, as a matter of law, bar a recovery for a breach of the warranty, although an inspection of the property would have led to a discovery of the defective condition of the thing delivered should not necessarily preclude a reliance upon the warranty. One reason for this is that the purchaser is often so situated that it is necessary for him to accept the article in its defective condition.

Property Rights in Advertising Cuts.

Are there any? If advertising cuts cannot be copyrighted, as such, does the law recognize any right in them, which it will protect? The supreme court of Pennsylvania seems to furnish a favorable answer in its comparatively recent decision of the case of Shaw v. Pilling, 34 Atl. Rep. 446. This was an action brought to recover for the infringement of a trade-mark. The parties sued not only used the name which the other had adopted, but also the exact pictorial representation of the article itself. It was not an accidental resemblance, but an admittedly intentional copy, the excuse offered therefor being that the parties supposed the name was a merely descriptive one, which they might use, and, as to the picture, that there was a custom of the trade for deal-

ers to "borrow" each other's cuts for advertising purposes. This, the court says may have been entirely true, and what the parties did they may have done ignorantly and innocently; but their acts were susceptible of a different interpretation, and it was for the jury to say what was their true intention. The judge could not have taken this question from them, nor could he have instructed them, says the supreme court, that such a custom if proved, would be a defense. No custom of other people, even in the same trade, it declares, can excuse one man taking another's property without his consent. Here the court seems to recognize property rights in advertising cuts. What remains is to show damages by their invasion. And in this case the court further holds that it was proper for the plaintiff to give evidence of the falling off of his custom concurrently with the defendants' beginning to use the trade-mark. The same rule ought to apply as well where the complaint is a wrongful appropriation of an advertising cut, not strictly speaking a trade-mark. The logic of this decision is clear.

GENEVA, N. Y.—The C. L. Van Dusen Co. has been organized with a capital of \$6,000, for the purpose of growing and selling nursery stock.

WRENTHAM, MASS.—Geo. A. Draper, a well known florist of this town, died on Sunday, July 12, from paralysis of the brain, aged 45 years. He will be greatly missed in the town, in business and socially.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of 10 cents a line (seven words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

SITUATION WANTED—By first-class florist. Good designer. All references. Address J. J., care American Florist, Chicago.

SITUATION WANTED—As foreman of a commercial place in or near Chicago. Best of references as to ability, etc. Address H. 27, care American Florist, Chicago.

SITUATION WANTED—As rose grower in a commercial place, by a German; 5 years' experience; age 28; married. Good reference. Address C. WAGNER, 218 ADD ST., Newburgh, N. Y.

SITUATION WANTED—By good all around florist, in or about Chicago; 10 years' experience; German, age 32, single, and willing to work. First-class references. Address R. K. Postoffice, Maywood, Ill.

SITUATION WANTED—As manager or foreman in a private or commercial place; 20 years' practical experience in all branches of the business. Best references. Address MANAGER, Box 103, Tom's River, N. J.

SITUATION WANTED—By the latter part of August, as rose grower; 16 years' experience; good worker. Best references. Those needing a hustler need only apply. State wages. Address RONES, care American Florist.

SITUATION WANTED—As foreman or manager by a first-class grower of roses, carnations, mums, palms, ferns, violets, bulbs and general stock; 22 years' experience; best of references, single; correspondence solicited. Address FLORIST, 129 N. Clark St., Chicago.

SITUATION WANTED—As foreman or manager in large commercial or private place, by a first-class grower of roses, carnations, mums, bulbs and general stock; 22 years' experience; age 35; married. Has been foreman, having full charge in large place for the past 4 years. Can furnish best of references. Address F. BEU, Collingdale, Del. Co., Pa.

WANTED—Catalogues and price lists of plants, seeds, etc. Address JOS. HARRIS, JR., Shamokin, Pa.

WANTED—An all round florist and gardener, with small capital, wishes to engage in business with lady or gentleman, in cut flower store, florist and gardening, or gardening; age 35, single; use no liquor, and best of references. Correspondence solicited. Address PARTNER, care American Florist.

FOR SALE—Six H. P. vertical steam boiler, used only one season. Will be offered at a bargain for cash bargain. Address S. BATSON, Kalamazoo, Mich.

FOR SALE—At half price, three greenhouses, stock, boiler, pipes and everything belonging to it, if applied for soon. Address W. S. P., care American Florist.

FOR SALE—Cash Register No. 79, check printing and total adding; used only a few months, and is new. Will dispose at a bargain or trade. Address E. HIPPARD, Youngstown, O.

FOR SALE—Four hot water boilers; will heat 30,000 square feet of glass. All less than price of one new. Address or call BRANT & NOE, Forest Glen, Ill.

FOR SALE OR LEASE—Five greenhouses, dwelling, sheds, etc. No competition. Half price. Bargain. Reason, bad health. For particulars, address B., care American Florist, Chicago.

FOR SALE—In live western town of 10,000, three greenhouses in heart of city. Sales since Jan. 1, about \$1,800. Terms easy. Address WESTERNER, care American Florist.

FOR SALE OR RENT—On account of ill health, greenhouses 50x15 ft., 3x10, also 1½ acres land; d dweeoolink; town of Strathroy, near London, Ont. Address T. S. CHALLONER, Strathroy, Ont.

FOR SALE—Cheap, cheap; one No. 16 Hitchhogs corrugated boiler; one No. 4 Scollay; two No. 3 Scollay; will sell at a sacrifice. Also have 300 feet 4-inch pipe, at a bargain. Address CHAS. L. MARSHALL, 60 Stevens St., Lowell, Mass.

FOR SALE OR RENT.

Nine greenhouses, fully stocked; business established 14 years; good local trade; also a new brick office and salesroom three-story brick dwelling and brick stable; about twenty blocks from the center of city; a most excellent opportunity. Call on or address JOHN WATSON, Jr., 715 Equitable Building, Baltimore, Md.

FOR SALE.

FLORIST ESTABLISHMENT, consisting of house and four greenhouses, in first-class order. The greenhouses were built for growing carnations, mushrooms and general stock of bedding plants for cemetery trade. Address

J. F. KLIMMER, Opposite Waldheim Cemetery, Oak Park, Ill.

FOR SALE—Second-Hand Boilers.

- 2-60 H. P. TUBULAR BOILERS.
- 3-40 H. P. TUBULAR BOILERS.
- 1-25 H. P. TUBULAR BOILER.
- 2-25 H. P. LOCOMOTIVE BOILERS.

All the above are in first-class order, well adapted for greenhouse heating, either steam or hot water. Will sell cheap. CLEVELAND STEAM BOILER WORKS, Cleveland, O.

TOBACCO DUST *300 A BBL. H. A. STOOHOFF. 315 MADISON AVE. NEW YORK CITY.

PANSY SEED.

If you want the finest large and fragrant Pansy flowers, TRY WOODBURY'S noted seeds. A FINE ASSORTED COLLECTION 50c. Finest German and Giant-flowered French strains blended, or either separate, 200 seeds 30c; 1/2 oz. \$1.00; oz. \$3.00. DAVID B. WOODBURY, Pansy Specialist, South Paris, Me.

Pittsburg.

A very large number attended the club meeting on the 23d ult., when all arrangements for attending the convention of the S. A. F. at Cleveland were practically concluded. The club will not go all together, as some will go by the Lake Erie and others by the C. & P. railroad; the rates are the same on both roads, but are not the rates secured by the S. A. F., and the countersigning of tickets will be avoided. At our next meeting on the 13th the committee will know how many expect to go; one thing is certain about that part, there will be a large delegation on hand. W. F. Lauch was appointed captain of the bowling team; he is one of our most enthusiastic bowlers. The committee to formulate a plan for more harmonious and beneficial methods of business among the florists consists of James B. Murdock, chairman; Samuel McClements of Randolph & McClements; and H. L. Hartman of Hartman Bros. No time has been set for their report, as all realize the importance and difficulties of the subject, and know it will require a great deal of time to overcome them. After the meeting adjourned the members held a "social," everyone expressing himself satisfied with the "set-up" provided by the entertainment committee.

Trade has been of the usual summer variety, very light; in fact if it were not for funeral work it would not amount to anything. The past week has been, on account of rain and wind storms, a very disastrous one in this section of Pennsylvania. On Monday there were two cyclonic storms which has about ruined outdoor crops of all kinds; they were the severest ones we have experienced for years. Settled weather, of a different kind from that of the last two months, is most anxiously hoped for by everybody.

Miss E. B. Maxwell, the florist of Wilkinsburg (Station D, Pittsburg P. O.) has returned from a fortnight's trip to Buffalo and Niagara Falls. REGIA.



TRY DREER'S GARDEN SEEDS, Plants, Bulbs & Requisites. They are the best at the lowest prices. Trade List issued quarterly, mailed free to the trade only.

HENRY A. DREER, Philadelphia, Pa.

Mention American Florist.

We devote our whole attention to

DAHLIAS

and not only have the LARGEST and BEST collection in America, but guarantee our stock true to name. We are now filling orders for trial grounds. Every SEEDSMAN and FLORIST interested in DAHLIAS should send for our new descriptive Trade List.

W. P. PEACOCK, Atco, N. J.

AZALEAS, the finest commercial varieties.
PALMS, large, healthy stock, well grown.
ARAUCARIAS, from cuttings only.
BAY TREES, perfect shape, in all sizes.

SANDER, Bruges, Belgium.

Agent: A. DIMMOCK, NEW YORK.
106 & 108 Liberty Street.
SEND FOR SPECIAL OFFER.



H. Wrede, LUNEBURG, GERMANY. PANSY SEEDS.

128 First Prizes, the highest award.
World's Fair, 4 Prizes.
1000 Seeds, finest mixed, 25c.
1 oz. \$3.75

Price List on application Cash with order.

VAUGHAN'S INTERNATIONAL PANSY MIXTURE



THIS mixture is composed of the choicest selections from nineteen American and European Specialists in Fancy Pansy Seed-growing, and is unquestionably The Best General Mixture in Existence. This is the Pansy mixture for every Florist who would realize the highest prices for his flowers and plants. It contains the cream of the cream of every noted Pansy growers' product the whole world over.

The Pansies growing for this mixture have been repeatedly personally inspected by us in the fields, and we thus became acquainted not only with the quality of the general assortment of each individual grower, but we also make selections of their choicest varieties. Thus it can be readily understood that we are in position to make up The Finest Combination of kinds in the world, and this we are doing each year with our "International Mixture." It contains, besides all the choicest German Pansies in their wide range of beautiful colorings, the Giant Sorts in variety, with

many Pink, Red, Chocolate, Slate and other Novel Shades. It contains all the separate colors of the Giant Trimardeans, with their immense flowers and rich colors. It contains the Giant Cassier and Bugnot strains, the product of celebrated Scotch strains, the Falaize and Boulogne Giants, in fact, there is no strain of any of the celebrated Pansy Specialists not represented in our INTERNATIONAL MIXTURE. Price, per oz. \$10.00; ½ oz. \$5.00; ¼ oz. \$1.50; trade pkt. 50c. (Less 10 per cent. for cash).

GIANT PANSIES.

Giant Trimardeau, white, large white with a violet center. Pkt. 25c; ¼ oz. 10c; oz. \$4.00.

Giant Beaconsfield, pkt. 25c; ¼ oz. 10c; oz. \$4.00.

GIANT TRIMARDEAU IMPROVED. This strain contains all the new colors of Trimardeau. Pkt. 25c; ¼ oz. 10c; oz. \$3.00.

GIANT CASSIER, a very choice variety of colors, each flower is marked with 3 or 5 blotches, pkt. 25c; ¼ oz. 10c; oz. \$5.00.

GIANT BUGNOT, the flowers are of enormous size, perfectly round, of great substance. Our "Bugnot" contains shades of red, bronze and reddish brown that are not found in any other mixture, pkt. 50c; ¼ oz. \$1.00; oz. \$6.00.

AURORA, a new, pure white giant, pkt. 50c.

GIANT GOLDEN QUEEN, new, golden yellow without any blotches, pkt. 50c.

Giant Paris Pansy Mixture.

The flowers of this strain are as large as the Trimardeau and far superior in color and in substance of petals; having a stout and stiff flower stem. Oz. \$4.00; ¼ oz. \$1.20; ½ oz. 65c; pkt. 25c.

VAUGHAN'S GIANT PANSY MIXTURE.—This mixture comprises all the above strains and colors, and will give satisfaction to everyone whose trade demands Pansies with large flowers. Per oz. \$5.00; ¼ oz. \$1.35; trade pkt. 50c.

VAUGHAN'S PREMIUM PANSIES, MIXED.—Embracing many shades and colors. Pkt. 25c; ¼ oz. \$1.00; ½ oz. \$3.25; oz. \$6.00.

CHICAGO PARKS BEDDING PANSIES.—Many colors mixed. 4 ozs. \$3.00; oz. \$1.00; ¼ oz. 50c; pkt. 10c. Write for list of separate colors.

Giant Auricula Colors, very beautiful, pkt. 25c.

Giant Violet Blue, pkt. 25c; ¼ oz. 50c.

Giant Yellow, Five Spotted, new, fine round flowers, pkt. 25c; ¼ oz. 50c.

Giant Hortensia Red, new, same shade as Hydrangea, pkt. 25c; ¼ oz. 15c.

Giant Emperor William, ultramarine blue, pkt. 25c; ¼ oz. 60c; oz. \$4.00.

Giant Trimardeau, mixed, pkt. 10c; ¼ oz. 50c; oz. \$1.50.

Giant Striped, pkt. 25c; ¼ oz. 65c.

Giant Trimardeau, Yellow, very showy color, good seller, pkt. 25c; ¼ oz. 45c; oz. \$3.00.

Giant Trimardeau, Purple, flowers very large, pkt. 25c; ¼ oz. 45c; oz. \$3.00.

Giant Coal Black, pkt. 25c; ¼ oz. 60c; oz. \$4.00.

Giant Copper-Color, pkt. 25c.

Mammoth Butterfly Pansy.

A very distinct strain. The flowers are very large of best form and substance. In coloring they are varied, seldom two alike in a hundred plants. Oz. \$3.00; ¼ oz. 55c; ½ oz. 95c; pkt. 25c.

10 per cent. Special Cash Discount on orders over \$2.00 for FLOWER SEEDS if the cash is enclosed.

NEW YORK: 14 Barclay St. **VAUGHAN'S SEED STORE**, CHICAGO: 84-86 Randolph St.

Planting Stock

IN

ROSES, FERNs, SMILAX.

German Pansy Seed.

PRICE LIST ON APPLICATION.

DAN'L B. LONG, Jobbing Florist, BUFFALO, N. Y.

THE ANNUAL MEETING OF THE

Florists' Hail Association

WILL BE HELD AT

ARMY AND NAVY HALL, CLEVELAND, O.,

On Wednesday Afternoon, at 3 P. M.

August 19th, 1896.

JOHN G. ESLER, Sec'y.



PALMS AND FERNS.

The LARGEST STOCK west of New York.

GEO. WITTBOLD, 1708 N. Halsted St., CHICAGO.

TWO REMARKABLE BERRIES



STRAWBERRY-RASPBERRY, LOGAN BERRY (Raspberry-Blackberry)

We are headquarters for them. Also Golden Mayberry and Sacaline, home-grown plants. Bottom prices for gilt edge stock.

THE LOVETT CO., Little Silver, N. J.

THE AMERICAN FLORIST

Subscription \$1.00 a Year. To Europe, \$2.00.
Subscriptions accepted only from those
in the trade.

Advertisements, 10 Cents a Line, Agate;
Inch, \$1.40; Column, \$14.00.
Cash with Order.

No Special Position Guaranteed.

Discounts, 6 times, 5 per cent; 13 times, 10 per cent;
26 times, 20 per cent; 52 times, 30 per cent.
No reduction made for large space.

The Advertising Department of the AMERICAN
FLORIST is for Florists, Seedsmen, and dealers in
wares pertaining to those lines ONLY. Please to
remember it.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure
insertion in the issue for the following Saturday.

Address THE AMERICAN FLORIST CO., Chicago.

THE PREMIUM LIST of the flower displays to be held at the American Institute Fair September 28 to October 29 is now ready, and may be had from the Director, Chas. Chamberlain, 113 W. 38th street, New York. The chrysanthemum classes include a number of liberal premiums.

RUBBECKIA LACINIATA FL. PL., which came out as a novelty this year, promises to be a useful florists' flower. It begins to bloom the latter part of July, growing 4 to 6 feet high; the long-stemmed flowers of a rich yellow suggest in form a reflexed chrysanthemum, with irregular petals giving a starry shape. It is a good keeper, and more refined than the double sunflowers.

THE new single border geranium Mars has made a very favorable impression on those who have seen it. The committee of the Cleveland Club, who recently passed upon some plants sent for exhibition by Mr. Henry Eichholz, of Waynesboro, Pa., believe it will be a decided acquisition as a border plant and as a bedder in small beds on account of its profusion of bloom. The color is white and salmon, habit very dwarf, leaf with dark brown zone.

THE U. S. DEPARTMENT OF AGRICULTURE has issued a very valuable bulletin on "The Shade-tree Insect Problem in the Eastern United States," by Prof. L. O. Howard, reprinted from their yearbook for 1895. It deals with the insects at present most destructive to our trees, giving remedies or preventives of their depredations. It is a timely and valuable paper, and will be found useful by every tree owner. It may be obtained on application to the Department of Agriculture, Washington, D. C.

STRAWBERRY CULTURE, recently received by us, is the first number of a series of garden handbooks, to be published in pamphlet form. It has 30 pages, bound in paper, and discusses its subject very clearly and fully. Of course it deals with the matter from an English standpoint, which would no doubt be modified considerably in our climate. Very full instructions are given for forcing strawberries, as well as growing them out of doors. (Published by Geo. Tucker, 1, 2 and 3 Salisbury Court, Fleet street, London; price, two pence.)

WISCONSIN FLOWER EXCHANGE,
CUT FLOWERS,
Palms, Ferns and Growers' Stock.
FLORAL ARRANGEMENTS, STORAGE,
AND COMMISSION.
Box 87, MILWAUKEE, WIS.



FANCY.

DAGGER.

NEW HARDY FERNS, 1896
Warranted First Quality.
PRICE REDUCED TO 75c PER 1000

FROM NOW UNTIL DECEMBER 1st.

Also Dealer in BOUQUET GREEN, SPHAGNUM MOSS, CHRISTMAS TREES, Etc., Etc.

L. B. BRAGUE, Hinsdale, Mass.

When writing mention the American Florist.



Mention American Florist

Send Advs. Now

FOR OUR

**CONVENTION
NUMBER**

TO BE ISSUED

AUGUST 15.

\$1000 REFUSED.

A year ago we made an offer of \$1000 cash for ONE PLANT each of the

NEW CANNAS

ITALIA AND AUSTRIA.

The offer was refused, a greater price being asked. To-day we have the stock and the plants are far better than expected. The price now is

\$5 PER PLANT; \$50 PER 12.

NEW ASPARAGUS SPRENCERII.
The best novelty for Florists' decorative purposes, \$1.50 per 12; \$10 per 100, from 2½-inch pots.

Send for Catalogue of Novelties.

A. BLANC & CO., Phila., Pa.

When writing mention American Florist.

THE NEW YORK CUT FLOWER CO.

119 and 121 West 23d Street,
112 and 114 West 24th Street,

Telephone 733, 18th St. **NEW YORK.**

THE LARGEST DEALERS IN CUT
... FLOWERS IN THE WORLD...

BRILLIANT GREEN AND BRONZE
GALAX LEAVES,

For Decorating and all Florists' Designs.
CHAS. H. RICKSECKER, Linville, Mitchell Co., N. C.

**WHOLESALE
FLORISTS**
JOEBERS IN
FLORISTS'
SUPPLIES.
FLORISTS'
VASES

METS,
BRIDES,
GONTIERS,
CARNATIONS,
ALWAYS ON HAND.

84 Hawley Street,
BOSTON, MASS.
HORTICULTURAL AUCTIONEERS.
Mention American Florist

WELCH BROS.

Wholesale Florists,

NO. 2 BEACON STREET,

Near Tremont St., **BOSTON, MASS.**

Asparagus Plumosus Nanus.

Cut Strings, 8 to 10 feet long,

50 CENTS.

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A complete line of Wire Designs.

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**DAN'L B. LONG,
FLOWERS AT WHOLESALE.**

Strictly Commission Business.

SUPPLIES, ETC.
LISTS FREE. **BUFFALO, N. Y.**

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SEEDS, BULBS AND ALL
FLORISTS' SUPPLIES

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If you want First-Class Flowers, properly packed and delivered on time, send us your orders and you will get what you want.

We are now prepared to furnish Florists' Wire Designs and a full line of Florists' Supplies.

WRITE US FOR OUR ILLUSTRATED CATALOGUE.

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HEADQUARTERS FOR AMERICAN BEAUTIES

Reinberg Bros. WHOLESALE CUT FLOWERS, 51 WABASH AVENUE, Telephone Main 4937. CHICAGO.

Our Roses best them all, in quality.
Headquarters for fine American Beauties.

W. E. LYNCH, WHOLESALE CUT FLOWERS. Wire Designs a Specialty. 19 & 21 RANDOLPH STREET, CHICAGO.

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Send Advs. NOW
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AUGUST 15.

Wholesale Markets.

Cut Flowers.

NEW YORK, July 27.	
Roses, Beauty.....	2.00@2.00
" Meteor, Kaiserin.....	4.00@8.00
" all other varieties.....	.50@4.00
Carnations, ordinary.....	.25@.50
" fancy.....	.50@1.00
Sweet peas per 100 bunches.....	.25@.50
Valley.....	4.00
Harrisii, Auratum.....	2.00@3.00
Asters.....	.50
Gladolus.....	1.00
Mignonette.....	.50@1.00
Adiantum.....	.75@1.00
Asparagus.....	40.00@50.00
Smilax.....	8.00@10.00

BOSTON, July 27.	
Roses, Gontier, Niphetos.....	1.00@2.00
" Perle, Marnet.....	2.00@3.00
" Bride, Bridesmaid, Meteor.....	2.00@4.00
" Beauty.....	5.00@15.00
Carnations.....	.25@.50
" fancy.....	.50@1.00
Valley.....	4.00
Asters.....	1.00
Gladolus.....	2.00
Pink pond lilies.....	6.00
Sweet peas.....	.20@.25
Adiantum.....	1.00
Smilax.....	10.00@12.00
Asparagus.....	50.00

PHILADELPHIA, July 27.	
Roses, Beauties long.....	10.00@16.00
" medium.....	8.00@15.00
" short.....	2.00@5.00
" Brides, Bridesmaid, La France etc.....	2.00@4.00
" Kaiserin.....	3.00@4.00
" small teas.....	1.00@2.00
Carnations, fancy.....	1.00
" first quality.....	.50@.75
Sweet peas.....	.15.00@30.00
Smilax.....	15.00@30.00
Asparagus.....	35.00@50.00
Adiantum.....	1.00

CHICAGO, July 31.	
Roses, Beauties.....	8.00@20.00
" seconds.....	4.00@6.00
" Brides, Bridesmaid.....	1.00@3.00
" Meteors.....	3.00
" Perle, Wootton.....	2.00
" Testout.....	4.00
" Kaiserin.....	4.00
Carnations.....	.50@1.00
Longiflorum.....	4.00@6.00
Auratum.....	6.00@10.00
Tuberose.....	4.00@6.00
Asters.....	.25@.50
Sweet peas.....	.10@.15
Swainsona, per dozen bunches.....	1.00
Gladolus.....	4.00
Cornflowers.....	.25
Smilax.....	10.00@12.50
Adiantum.....	1.00

St. Louis, July 30.	
Roses, Beauties, long.....	10.00
" short.....	4.00
" select stock.....	3.00
" general stock.....	1.00
Carnations.....	1.00
Valley.....	3.00
Cornflowers.....	.25
Daisies field.....	.15
Sweet peas.....	.25
Asters.....	1.00
Hollyhocks.....	.50
Gladolus.....	3.00
Smilax.....	10.00@15.00
Ferns, Adiantum.....	1.00

GEORGE A. SUTHERLAND, Successor to PECK & SUTHERLAND, Successors to WM. J. STEWART, Cut Flowers & Florists' Supplies WHOLESALE. 67 Bromfield St., BOSTON, MASS. New England Agent for the GREAT ANTIPEST.

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EVERY TIME
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ADVERTISER.

John I. Raynor, 49 WEST 28th STREET, NEW YORK.

SPECIAL EXTRA STOCK OF
AM. BEAUTY, METEOR,
BRIDESMAID, BRIDE.

Grown particularly for summer trade.

DISBUDDED CARNATIONS.
FANCY GRADE.

CUT FLOWERS. SELECTED STOCK

—AND—

NOVELTIES.
THOS. YOUNG, Jr.,
49 W. 28TH ST., NEW YORK.

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Roses shipped to all points. Price list on application.

Edward C. Horan, 34 W. 29th Street, NEW YORK, WHOLESALE • FLORIST.

Careful Shipping to all parts of the country.
Price list on application.

Purdy & Blauvelt, WHOLESALE DEALERS IN CUT FLOWERS, 57 W. 30th St., NEW YORK.

Good Flowers ARE HARD TO GET IN MID-SUMMER. FOR CHOICE STOCK SEND TO JOHN YOUNG, 51 W. 28TH STREET, NEW YORK.

FRANK MILLANG, CUT FLOWERS, WHOLESALE, COMMISSION, 408 E. 34th Street, Cut Flower Exchange. NEW YORK.

JULIUS LANG, Commission Dealer in Cut Flowers, WHOLESALE, 53 West 30th St., NEW YORK CITY.

MILLANG & CO., WHOLESALE FLORISTS, 501 Sixth Avenue, CORNER 30TH ST., NEW YORK. Consignments Solicited.

Our Seed Trade.

AMERICAN SEED TRADE ASSOCIATION.

T. W. WOOD, Pres.; ALEX. RODGERS and J. B. Rice, Vice-Presidents; A. L. DON, 114 Chambers Street, New York, Sec'y and Treas.

Pacific Seed Gardens.

Onions have done splendidly this season all through the Santa Clara valley, and there is no chance of a shortage of onion seed from this section. Red Wethersfield, which was short last year, is in splendid form this season.

At C. C. Morse and Co.'s new seed farm at Gilroy the first thing that drew our attention was the immense onion fields. As far as the eye could reach on both sides of the railroad track was nothing but hundreds of acres of onions presenting a beautiful silvery gray appearance in the midday sun. Long drainage ditches have been dug all through the farm to drain off the seepage from the adjacent mountains. A big acreage of American Flag leeks were growing nicely and promised good results. The golden self blanching celery looked very pretty with its light golden color in contrast with the other darker sorts. Hollyhocks are also grown here, but did not do much this season.

The great specialty of this firm is lettuce. They undoubtedly have the largest trade in lettuce seed in the world. They are growing over seventy-five named varieties. Immense fields of black seeded Simpson were passed, all looking excellent with the exception of a few places where they were washed out by the winter rains, but a second sowing had made an excellent growth and promised as good results as the early sown plants. The new lettuce "The Morse" showed up in excellent form. We also saw a large acreage of southern curled mustard, which was nearly ripe. In places the fly has made its appearance, but not so as to do any damage. A field of Cos lettuce looked well.

Radish seed is another important factor in this firm's business, a very large acreage being grown. In many places that terrible fly had done much damage, but in other places it was perfectly free from it. Many varieties are grown here.

At the Miller ranch we found many interesting things. Mr. Waldo Rohnert has charge of the flower seeds on this place, and they are a credit to him. We saw a lot of mixed seedling hybrid sweet peas growing, of which great results are expected. They indeed presented a beautiful sight, and that well known seedsman W. Atlee Burpee after looking at them exclaimed "It is worth a trip to California to see." On this place was also seen a large area of lettuce. Spinach had been cut, and they were beginning to harvest at that time. The crop of it as a general rule will be very good. The chief sorts grown were Long Standing, New Victoria, Savoy, Leaved and New Zealand. Here also is grown quite a lot of centaurea in different sorts, which was in full bloom. Passing further we came to a patch of Cupid sweet pea, which looked beautiful, almost covering the ground with their white flowers. This variety has been watched closely this season for "sports," but so far without avail, coming very true at all times.

Passing more onion fields we came to the sweet pea trial grounds. This year's set of novelties have proved rather disappointing, with the exception of Countess of Aberdeen and Crown Jewel, the latter named sort being the best of Eckford's

set. The varieties introduced by W. Atlee Burpee, namely, Greyfriar, Oddity, Ramona, Juanita and Daybreak, were looking fine; also J. C. Vaughan's America showing up in excellent shape and of good size. As soon as we get the rounded form on this variety we are going to have a gem.

We passed beds of poppies, stocks, pansies and asters. Semple's chrysanthemum flowered varieties do excellent here, as they do throughout the state. The Giant Comet is also a great favorite.

We came upon the novelties that are to be introduced this coming season, and some of them have bright futures, for instance, the salmon striped sweet pea possessing the finest form and texture, which is a selection from Mrs. Jos. Chamberlain. A curious coincidence is that this sweet pea originated simultaneously with this firm and Mr. M. Lynch last season. We saw some fine double Boreaton, also Firefly, which was slowly taking on the hooded form. Another selection from Eliza Eckford was also fine, being as a lighter shade throughout than its parent.

Of the older sorts Katharine Tracy has made a wonderful growth, but one fault is that as a general rule it has only two flowers to the stem. Out of Crown Jewel also comes a light lemon of grand form and size, and from present indications it looks as though it is going to be black seeded. If we can get a black seeded lemon color sweet pea I begin to think that a step has been made towards the sulphur yellow so long sought for.

On this ranch over 150 hands are employed to keep everything in proper condition.

At Santa Clara, where the original farm is situated, we first went to the old farm which is a short way out of town where there were large lots of lettuce and onions growing, all looking in the pink of condition. Radishes also were growing here but were badly infected with the fly.

The Murphy Ranch, where the farm proper is located, contains over 1,000 acres of fine level land fed by flowing artesian wells. Here was seen the newer sweet peas growing in large lots and promising good crops. An object of interest was a new onion to be sent out by one of our leading seed houses this season to be called the "Pink Prize-taker." It is a pink selection from the original Prizetaker and possesses all of the good traits of that now famous variety which also originated here. Here was grown the new Mignonette lettuce which has to be cut twice before it will run to seed, so hard is the head.

Great fields of carrots were in full bloom and one of the prettiest sights of all was a stretch of parsley in full bloom standing over 8 feet high of bright yellow colored flowers. A field of Creole onions was struck with the blight and showed up poorly.

One thing which is almost a total failure this season in California and also we understand in other parts of the country is the cabbage crop. It is almost entirely destroyed and the yield will be almost nothing. Nasturtiums also are in the same condition. We came to the new "Blanche Ferry Cupid" which is identical with Cupid with the exception of color, which is the same as Blanche Ferry. This is a great acquisition and will undoubtedly have as large a run as Cupid. An odd thing is that this is no sport from Cupid but originated in Santa Clara nearly 100 miles from where Cupid was found.

Large lots of hollyhocks, cosmos and

other flower seeds are being grown here, also salsify is now being harvested and looks well. Endive also is in fair condition.

During the next month and during the harvesting season over 300 hands will be employed on this great farm, which is now being spoken of as the largest and best known in the seed trade.

METEOR.

OHIO tomato growers report serious injury to some varieties by heavy rains with extreme heat.

JAMES B. KIDD, representing the Sunset Seed & Plant Co., San Francisco, was in Chicago this week.

THE stock of the Northrup, Braslan, Goodwin Co. at the Chicago warehouse has been sold to L. W. Dean for \$10,000.

ORANGE, MASS.—G. L. Frye, of the firm of Frye & Burrell, has taken a position as travelling salesman for the D. M. Ferry Seed Co., of Detroit.

HONEOYE FALLS, F. Y.—The Edward F. Dibble Seed Co. has gone into a receiver's hands. This company was incorporated some two years ago with a capital of \$20,000, which has now shrunk to about \$5,000, with out-standing liabilities of about \$17,000.

Catalogues Received.

Wisconsin Flower Exchange, Milwaukee, Wis., bulbs; Dammann & Co., San Giovanni a Teduccio, Italy, plants, bulbs and seeds; Mexican Plant Co., Maravatio, Mexico, orchids, bulbs, etc.; American Boiler Co., New York and Chicago, valves.

Greenhouse Building.

Taking as a basis for estimate the incidental notes that appear from time to time in our trade reports, it appears that at the lowest calculation the extent of new glass structures erected in the United States for commercial purposes during the past three months must amount to at least one million square feet. This record during a period of widely extending financial depression, when business enterprises of any kind are undertaken with timidity, is surprising, and it is safe to say that the rapid and increasing extension of the florists' trade is realized by but few.

The substantial character of the houses recently erected as compared with the majority of the structures of a few years ago is worthy of note, also the fact that the greatest reported increase of glass area is in the vicinity of large centers, where, judging from the constant reports of overstock and unprofitable returns, it would seem that the capacity of existing establishments is amply sufficient for all needs of the business for several years to come.

While to some of us it looks as though the time had arrived when it would be wise to "go slow" in further investment in greenhouse property, yet we must presume that the gentlemen who are putting their money in so persistently know why they do it, and their evident faith in the stability of their business notwithstanding their oft-repeated complaint that prevailing prices on their goods had now gone below the cost of production, is certainly very gratifying to contemplate, and we cannot but feel that as soon as a general business revival sets in great prosperity is sure to come to an industry that has been able to display so much of vigor under unfavorable conditions.

Berleau and Western Avenue, CHICAGO.

Greenhouse Building.

Marlboro, Mass., F. A. Howe, one commercial house, 35x80.

Lowell, Mass., H. B. Greene, 3 commercial houses, each 19x68, one 23x54.

Philadelphia, Pa., Lewis Billger, 7142 Germantown avenue, two commercial houses, each 20x70; J. Cohler, one commercial house, 20x250.

Wakefield, Mass., S. T. Parker, one commercial house.

York, Pa., Chas. E. Smith, rebuilding. Littleton, Pa., Ira Parker, rebuilding. Monroe, N. H., J. Crawford, rebuilding. Marlboro, Mass., A. H. Foster, rebuilding.

Utica, N. Y., Forest Hills Cemetery, two greenhouses.

Campello, Mass., W. E. Baker, one greenhouse, 25x100.

Tenafly, N. J., David Demott, two greenhouses.

Pittsfield, Mass., A. J. Loder, one greenhouse.

Columbus, O.

Exceedingly heavy storms on the night of the 27th did much damage to shade trees through the southern part of the city. Long continued rains have done great damage to growing crops, many thousands of acres being under water.

The employees of A. W. Livingston's Sons played a game of base ball with a nine from the State University; the score was 24 to 11 in favor of the former.

M. D. Cole and Frank Danzer spent Saturday and Sunday in Detroit, Mich.

R. H. Murphy of Urbana gave us a call Saturday. He says he will raise no cut flowers the coming year, but will devote all his space to rose plants. B. K.

Norwich, Conn.

Mr. Joseph Smith is quite busy giving his entire plant a thorough overhauling. He has also added a carnation house 75x15.

Mr. Geo. Brooks has removed his greenhouses from Greenville. Mr. Brooks has not quite decided as to the place upon which to build his new houses. Homo.

Onions for Fall Sowing.

Can some reader of the FLORIST tell me which is the best onion to sow in the fall, leave out over winter and produce early green onions in the spring for market? Also the right time to sow. BEEDER. Wisconsin.

SADDLE RIVER, N. J.—John G. Esler, secretary of the Florists' Hail Association, had the fore finger of his right hand badly crushed and broken while pumping water with a hot air engine, last Monday afternoon.

SALT LAKE CITY, UTAH.—Mr. Geo. W. Barrows succeeds Barrows & Smith, Mr. Henry D. Smith retiring. Mr. Barrows is building an addition 18x62 to one greenhouse and a store in connection.

Rose Plants.

2½-In. per 100 3-In. per 100

BRIDESMAID.....\$3 50 \$6.00

THE BRIDE..... 3.50 6.00

K. A. VICTORIA..... 3.50 6.00

All in prime condition for planting.

BROWN & CANFIELD,
Springfield, Ill.

Herr's Pansies

My customers tell me are the **BEST STRAIN** grown either in this country or Europe.

Why bother with seed when you can buy plants of this strain any time after Sept. 1st.

\$5.00 per thousand; 75 cts. per hundred.

Write for circular. It will pay you to get acquainted with my Pansies and Rooted Cuttings L. B. 496. **ALBERT M. HERR, LANCASTER, PA.**

CHRYSANTHEMUMS

FROM 2-INCH POTS. Per 100

900 Mrs. H. Robinson.....\$5 00

100 Niveus 3 00

300 Mayflower..... 3 00

600 Mrs. Jerome Jones..... 3 00

100 Minerva..... 3 00

300 Lady Playfair..... 3 00

100 October Beauty..... 3 00

200 W. H. Lincoln 3 00

50 M. R. Dean..... 3 00

50 Mrs. C. H. Payne..... 3 00

200 Mme. F. Bergmann..... 3 00

100 Agnes L. Dalskov..... 4 00

100 Geo. S. Conover..... 3 00

200 Mrs. E. G. Hill..... 3 00

100 Yellow Queen..... 3 00

100 Vivian-Morel..... 3 00

100 Chas. Davis..... 3 00

50 Kate Brown..... 3 00

50 Golden Gate..... 3 00

50 Mme. Carnot 3 00

50 Mrs. J. Geo. IIs..... 3 00

200 Wm. Simpson..... 10 00

200 Mme. Felix Perrin..... 10 00

Those ordering 250 plants or over may deduct 50 cts. per 100 from these prices.

We also have several thousand in smaller quantities which we are closing out at \$2.50 per 100, or 250 for \$5.00. Our selection. Cash with order.

These quotations are for immediate acceptance. We only agree to furnish, if stock is unsold on receipt of order.

NATHAN SMITH & SON,
ADRIAN, MICH.

FERNS IN VARIETY.

Just the thing for this Fall. Well established in 2-inch pots. Adiantum from flats.

Field-grown CARNATIONS in season.

Write for varieties and prices.

EDGEWOOD GREENHOUSES,
GLENVIEW, PA.

FERNS Pteris Serrulata. Densa. Nana. Tremula. Smithiana. Adiantum cuneatum and pubescens. Nephrolepis tuberosa.

50 for \$2.00; 100 for \$3.50; 500 for \$15.00; 1000 for \$27.50; 2000 for \$50. Cash with order. All out of 2½-in. pots

C. F. BAKER, Utica, N. Y.

JUST OUT.

In new and improved form. Present size of buckle fits any 1½-inch strap, old or new; requiring no stitching or riveting to mount it. Other sizes not yet made. Invented and patented by a rose grower to save labor, effort, patience, time and straps. Ask for

STANDARD BUCKLE.

A sample mailed to any address on receipt of 50 cents. **FRANK L. MOORE, Chatham, N. J.**

Pansies Worth Raising.

NEW SEED. QUALITY A1.

3-16 ounce, \$1.00; ¼ ounce, \$2.50; 1 ounce, \$4.00; 1 pound, \$50.00.

CASH WITH ORDER.

Plants in season.

C. SOLTAU & CO., 199 Grant Ave., Jersey City, N. J.

PALM Seed. FRESH ON HAND

Per 100 Per 1000

Areca rubra.....\$1.25 \$10.00

Cocos Weddelliana..... 1.50 12.50

Geonoma gracilis..... 1.50 12.50

" Schottiana..... 1.50 12.50

Coffea arabica (coffee tree)..... 1.50 12.50

All Chamærops, Phoenix and many others now in stock. A full list on application.

FOR AUGUST DELIVERY.

Kentia Belmoreana.....\$1.25 \$10.00

Kentia Forsteriana..... 1.25 10.00

J. L. SCHILLER, Rutherford, N. J.

When writing mention the AMERICAN FLORIST

A fine lot of
BRIDE AND BRIDESMAID ROSES,
Now ready, out of 2½ and 3-inch pots.
Also a nice lot of
CALIFORNIA VIOLETS,
out of 2½-inch pots. Write for prices.
H. O. ROHRER, Box 344, Lancaster, Pa.

SPECIALTIES
IN BEST VARIETIES.
ROSES, from 3-inch pots.
CARNATIONS, for fall delivery.
CHRYSANTHEMUMS.
SMILAX.
VIOLETS.

Prices low. Send for list.

WOOD BROTHERS, FISHKILL, N. Y.

E. G. HILL & CO.,
Wholesale Florists
RICHMOND, INDIANA.

THE COTTAGE GARDENS,
C. W. WARD, Mgr. **QUEENS, L. I., N. Y.**

WHOLESALE SPECIALTIES:
Carnations, Chrysanthemums,
Cannas, Geraniums.

CARNATIONS
Rooted cuttings all sold.

FIELD-GROWN PLANTS
IN SEASON.

Address **CHAS. CHADWICK,**
Lock Box 11, **GRAND RAPIDS, MICH.**

CARNATIONS A SPECIALTY.
Rooted Cuttings. Young Plants. Field Grown
Plants in season. Write for prices.
GEO. HANCOCK & SON, Grand Haven, Mich.

CARNATIONS.
F. DORNER & SONS CO.,
LA FAYETTE, IND.

PLEASE mention the AMERICAN FLORIST
every time you write to an advertiser.

SEND ADVS. NOW
FOR OUR
CONVENTION NUMBER,
TO BE ISSUED
AUGUST 15.

Rogers Park Floral Co.

GOOD FIRST CLASS STOCK.

In 2½-inch pots	per 100	per 1000
Kaiserin Victoria.....	\$4 00	\$35 00
Belle Siebrecht.....	4 00	35 00
Bridesmaids	3 00	25 00
Brides.....	3 00	25 00
Meteors.....	3 00	25 00
Meteors, 4 inch pots.....	5 00	40 00

Orders for less than 100 not accepted.
Ready for shipment now.

Send Orders to 41 Wabash Ave., Chicago.

Roses. Roses.
SURPLUS STOCK.

	Per 100
700 MERMETS, 3-inch pots.....	\$4.00
500 BRIDES, 2½-inch pots.....	3.00
300 BRIDESMAIDS, 2½-inch pots.....	3.00
1500 SMILAX PLANTS, in 2½-inch pots, at.....	2.00

ALSO A FEW QUEENS, ETC.

HANNAH & CUNNINGHAM,

GRAND RAPIDS, MICH.

ROSES. FIRST-CLASS STOCK.

Meteors and Brides, 4-inch, \$6.00
per hundred.

25,000 Field-grown **Carnations**, leading varieties. Write for prices.

CRABB & HUNTER, Grand Rapids, Mich.

ROSES.

BRIDES, BRIDESMAIDS and MERMETS,
\$3.00 per 100; \$25.00 per 1000.
LA FRANCE, BRIDES and BRIDESMAIDS, 3-in.
\$5.00 per 100; \$45.00 per 1000.
25 at 100, and 250 at 1000 rates.

R. F. TESSON,

West Forest Park, **ST. LOUIS, MO.**

100,000 Strong Field-Grown **ROSES**

(Budded and own roots) for Fall delivery.

Try our new **BIOTA AUREA NANA.**

Thousands of **Olea Fragrans, Azaleas, Camellias** and **Magnolia Fuscata.**

Prices on application.

P. J. BERCKMANS, Augusta, Ga.

A FEW HUNDRED EXTRA FINE

LA FRANCE, METEORS and
BRIDESMAIDS, at a bargain.

100 Fine BELLE SIEBRECHT.

All ready for 4's. Wire your orders.

GEO. A. KUHLE, Pekin, Ill.

Forcing Roses. GOOD PLANTS.

BRIDES, BRIDESMAIDS, NIPHETOS, PAPA
CONTIER, MERMET, SAFRANO, \$2.50 per 100
I. L. PILLSBURY, Calesburg, Ill.

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CHRYSANTHEMUMS.

From 2-inch pots, extra choice, young stock, \$2 00 per 100.

FOR IMMEDIATE SALE.

Mrs. W. H. Rand
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Latest Fad
M. Richard Dean
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Pres. Wm. R. Smith
Paul Noisetle
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Lady Playfair
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Enfant des Deux Mondes

NEW VARIETIES, at \$8.00 per 100

Mrs. E. Buettner
William Simpson

Mrs. W. C. Egan
Gretchen Buettner

Autumn Bride
Daydawn.

A choice lot of SMILAX in 2-inch pots @ \$2 50 per 100; \$2 00 per 1000. 250 at 1000 rate.

GREENHOUSES, WESTERN SPRINGS, ILL. VAUGHAN'S SEED STORE, 84 & 86 RANDOLPH STREET, CHICAGO.

30,000 FIRST QUALITY FORCING ROSES.

Fully equal to those sent the last four years, first-class and perfectly healthy in every respect. Only selected growth from flowering shoots used in propagating.

WOOTTON,

3-inch pots, \$8.00 per 100.

4-inch pots, \$12.00 per 100.

BELLE SIEBRECHT,

METEOR,
MERMET,
BRIDESMAID,

KAISERIN A. V.,
PERLE,
3-inch pots, \$7.00 per 100.

SUNSET,
NIPHETOS,
4-inch pots, \$10.00 per 100.

BON SILENE,
BRIDE,

J. L. DILLON, Bloomsburg, Pa.

ROSES

MERMETS, CUSINS, TESTOUTS, NIPHETOS, BRIDES, BRIDESMAIDS, METEOR, PERLE, WATTEVILLES, AUG. VICTORIA. 2 3 and 4-inch pot plants. Cash with order. Owing to number booked, they will be executed in rotation to assure prompt delivery. Order early.

Address for quotations, **VILLA LORRAINE ROSERIES, MADISON, NEW JERSEY.**

AMERICAN BEAUTY, METEOR, BRIDESMAID, BRIDE, TESTOUT, PERLE, MRS. DEGRAU, SUNSET, LA FRANCE, KAISERIN, 3 and 4-inch pots. M. LOUISE VIOLETS, 2½, 3 and 4 inch. CALIFORNIA VIOLETS, 2½, 3 and 4-inch. ASPARAGUS PLUMOSUS, 3 and 4-inch. A. S. MacBEAN, Lakewood, N. J.

ROSES.

Good, strong 2½-inch stock.

Per 100

MARY WASHINGTON	\$2 00
MRS. DEGRAU	2 00
GOLDEN GATE	2 50
MME. C. TESTOUT	3 00

CASH WITH ORDER.

NATIONAL PLANT CO., Dayton, O.

Mention American Florist.

SMILAX.

Strong plants from last fall, \$3.00 per 100
Young good plants..... 2.00 per 100

CLEMATIS.

A fine assortment for fall. Prices on application.

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Adiantum Farlyense
EXTRA FINE PLANTS.

In the various sizes.

Prices upon application.

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Wyndmoor, near Chestnut Hill,
(Station H.) **PHILADELPHIA, PA.**

FERNS! FERNS!

CUNEATUM and GRACILLIMUM,

Fine plants, \$5.00 per 100.

And also will exchange for *Pteris Argyrea*, *Tremula* and *Nephrolepis Exaltata*.

TITUS BERST, Erie, Pa.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns.

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17 3 to 4 inch PALMS for \$3.00.

10 4 to 5 inch PALMS for \$3.50.

MONTHLY and TEA ROSES, ADIANTUM and SWORD FERNS, LABELS, MOSS, Etc.

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CHRYSANTHEMUMS.

All the choicest novelties and the cream of the standard varieties. A limited quantity of fine, healthy plants at reasonable prices. Let us know your wants.

Carnation plants all sold.

H. WEBER & SONS, Oakland, Md.

Siebrecht & Wadley's
PALMS, FERNS
AND ORCHIDS.

We give you good value for your money.

Rose Hill Nurseries, New Rochelle, N. Y.

Violets.

STRONG, HEALTHY, CLEAN PLANTS.

MARIE LOUISE VIOLETS, from 4-in pots
at \$6.00 per 100; \$50.00 per 1000.

Send for Sample.

Cash with order.

THEODORE KNOCKE, Princeton, N. J.

FORCING ROSES.

LA FRANCE, PERLE, TESTOUT, KAISERIN
good stock, 5 cts.

MCCREA & COLE, Battle Creek, Mich.

Newport, R. I.

Roses, carnations and sweet peas of good quality (the latter exceptionally fine) are in abundance, and the demand as well as the prices commanded seem to be fully in touch with the quality offered. Mr. A. Brandt's new store, 134 Thames street, is a great improvement on his former place, the store being large, commodious, well lighted and well adapted for a first-class floral establishment. A visit to Mr. Brandt's greenhouses was a rare treat, for aside from the pleasure of beholding five thousand hydrangeas, veritable giants, arranged in several long rows on the grounds adjoining the greenhouses, there was a deal to be enjoyed in the two grape houses, filled with the choicest varieties. Another thing that was well worth seeing and admiring was a patch of ten thousand carnations, as fine and as healthy a collection of varieties as I ever beheld. Hydrangeas and carnations seem to be Mr. Brandt's hobby, he having met with exceptional success in growing both. I should have mentioned that violets are also one of his great favorites, among other varieties his sport of Marie Louise being a fine bloomer and a splendid grower, the stems averaging eight and nine inches in length, and the flowers being correspondingly large. "My experience taught me," remarked Mr. Brandt, "that unless you shade your young violet plants or protect them as much as possible from the sun, no soil, however rich, will insure good results. I believe in 'protection'."

HOMO.

Providence, R. I.

Friday evening, July 24, saw the largest attendance for months at meeting of the Florists' and Gardeners' Club of Rhode Island. The session was full of life, and from President T. O'Connor, who with good natured dignity occupied the chair, down to the most retiring member in the further corner, there was abundant and unmistakable evidence of that spirit which makes a club prosperous and insures success in advance to whatever it undertakes. The subject for special discussion was the proposal to extend an invitation from the club to the Society of American Florists to hold its meeting for 1897 in Providence. After full consideration of the subject in all its bearings the proposition was enthusiastically carried by a practically unanimous vote, and every member present pledged himself to do all in his power to make the meeting of 1897 a grand one if the national society should see fit to accept the invitation. There were present F. W. Fletcher of the *New England Florist*, W. Tailby of Wellesley and Secretary W. J. Stewart of the S. A. F., all of whom congratulated the Providence brethren upon the prospect of having the grand old society as a visitor to New England once more, and assured them of the hearty sympathy and co-operation of the Boston fraternity.

Conneaut, O.

R. C. Ehr Gott will soon begin to build one house 15x50 feet for roses and carnations, and in the spring will add 30 feet to the present house, with boiler room and potting shed. He had not yet decided whether he will use hot water or steam, and will wait till the convention before deciding. Miss Venen, the only other florist here, will also attend.

H. Y.

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S. A. F. TRADE EXHIBITION,

CLEVELAND, O., AUGUST 18, 19 and 20, 1896.

The **Wide Awake Exhibitors** are taking space rapidly. There is plenty of room for all. **"First come, first served."**

A FEW CHOICE CORNER LOTS STILL TO BE HAD.
For Space apply to

E. H. CUSHMAN, Euclid, O.

May's Giant Mignonette

The finest strain on the market. **NEW CROP JUST HARVESTED**, in extra fine condition. Now is the time to sow it for winter blooming. Price, \$3.00 per ounce; 25 cts. per packet. Send in your orders early, as stock is limited.

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Orchid-Flowering CANNAS ITALIA and AUSTRIA.

They were immense under my glass last season. This year in the **INGLESIDE NURSERIES** they are simply wonderful. Notwithstanding a hot, dry summer, every flower is perfect, every leaf complete. Ready for delivery in October.

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F. EDWARD GRAY,
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BARGAIN IN GLASS

1600 feet 8x10. Write for prices.

SEE THIS OFFER ON ROSES:

	Per 100
500 LA FRANCE, 3-inch	\$1.00
700 LA FRANCE, 2½-inch	2.50
100 METEORS, 2½-inch	3.00
650 SMILAX, 2½-inch	2.50
400 Strong, 4-inch BRIDES, strictly first class, wanted in exchange from grower near by.	

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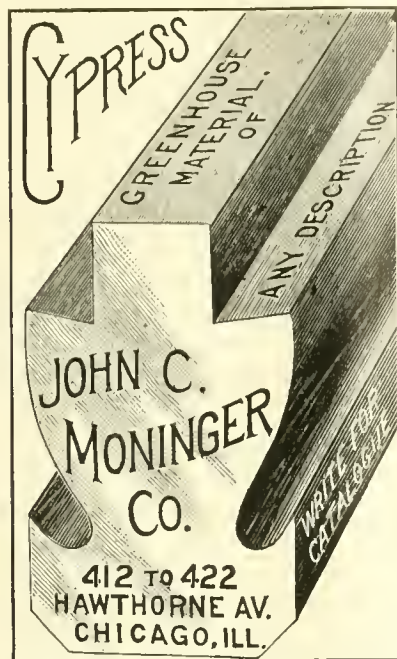
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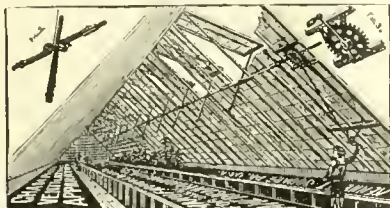
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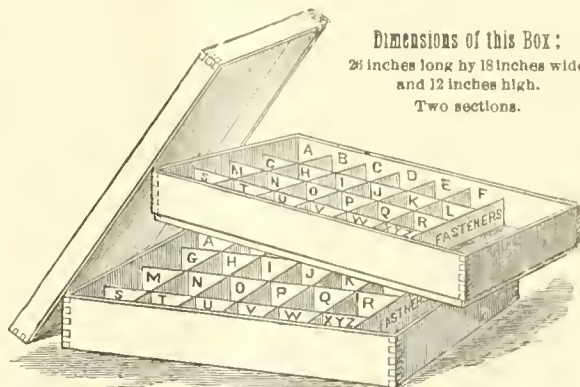
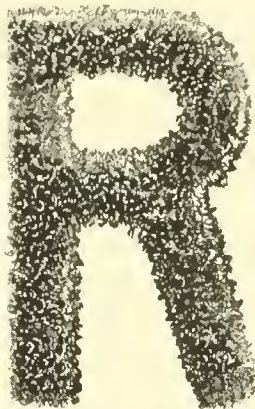
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Two sections.

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We have a new FASTENER which we consider
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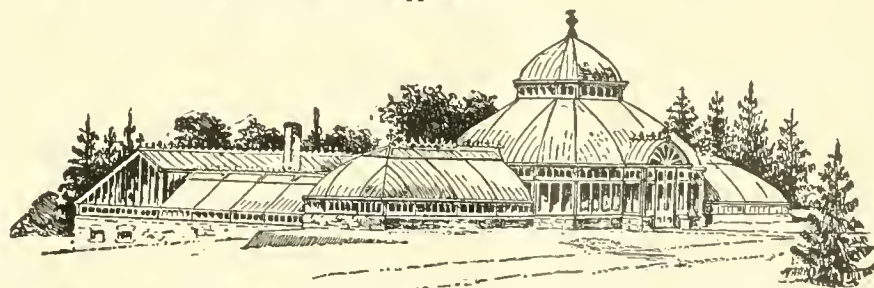
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FLORISTS WIRE DESIGNS
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N. STEFFENS
335 EAST 21ST ST. NEW YORK.
Mention American Florist.

SEND ADVS. NOW
....FOR OUR....
Convention Number.

Denver, Colo.

A severe hail storm visited Denver the afternoon of July 25, doing a distressing amount of damage to the beds and shrubbery at the city park, also breaking a considerable amount of glass for the florists in that part of the city. The soft wooded stuff bedded out in the park is all cut up, so that it is practically ruined, in many places the hail having cut plants down to the ground, while nearly every plant in the park lost every leaf. Supt. Graham put a large force of men at work cleaning up the debris as soon as possible after the storm, and by Sunday noon had the grass cleaned off and the drives and walks repaired, but the damage to the bedding cannot be repaired this season. The Park Floral Co. lost between 5,000 and 6,000 pieces of 10x12 double strength glass, besides having considerable damage done to their carnations, etc., planted out in the field. The Colfax Floral Co. also suffered, losing about 2,500 square feet double strength glass, also sustaining severe loss to outdoor stuff. Emil Glauber, Montclair, lost about 500 feet of glass, and Mrs. R. Mauff suffered considerably from breakage at her Logan avenue place.

A visit to the various establishments and about the city shows that the summer's work at the various places is well under way, and many improvements have been made. Gallup has two new carnation houses, each 18x125, nearly completed. Mrs. R. Mauff has a new asparagus house 60x50, 20 feet high, nearly ready to glaze. The Colfax Florist Co. are preparing to complete their new carnation house, which will be 30x150 when finished. D. S. Grimes & Son are rebuilding a large rose house and making other improvements.

The H. H. Given Co. has nearly finished tearing down the Alameda avenue plant and has begun the erection of two new houses as an addition to the Red Leaf Conservatories. Perhaps the most encouraging sign of all is the tendency of the Denver florists to confine themselves to specialties this season. With the exception of the large retail establishments the majority of our growers are growing some particular specialty, which will undoubtedly be a good thing for the trade in general.

Good roses are scarce at 4 and 5 cents, carnations begging at \$1, smilax 20 cents, Beauties scarce at any price.

NEVIG.

SEND Advs. Now

FOR OUR

CONVENTION
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To be issued August 15.

FLOWER POTS.

We Manufacture all kinds of Flower Pots, etc.
Making a Specialty of

Florist Standard Pots

Send for price list and samples (which will be sent free), and we know you will give us your order.

J. G. SWANN'S SONS, Minneapolis, Minn.

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FAIRBANKS—GALV'D STEEL.

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50,000 Already Sold.

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FOR GREENHOUSES.

Write for latest prices.

STANDARD FLOWER POTS.

Send for our new price list, with extra discounts. All of our Pots from 7-inch and upwards have our Patent Excelsior Bottom, which is a great advantage as it insures perfect drainage.

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STANDARD FLOWER POTS

Every user of Flower Pots should correspond with us before purchasing elsewhere. Our facilities are unequalled.

A. H. HEWS & CO., N. Cambridge, Mass.

Announcement to Florists.

We desire to announce the dissolution of the firm of Sipfle Dopfel & Co., and to introduce to the trade its successor, The Syracuse Pottery Co., which will be under the management of William Dopfel and Conrad Breitschwerth. The business will be conducted as heretofore, except on a larger scale to meet the growing demand for our goods. We have accordingly enlarged our plant and capacity, and with unsurpassed facilities are now prepared to fill the largest order on short notice. Our latest improved machines are turning out the best and most serviceable flower pots in the market, and assuring you of our intention to lead in further improvements we solicit a continuance of your patronage in the belief that we can supply just what is needed at a price and in a manner satisfactory to all.

Send for price list and samples and we know you will give us an order.

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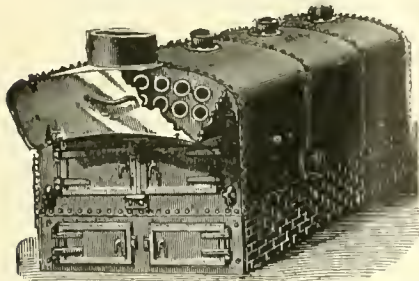
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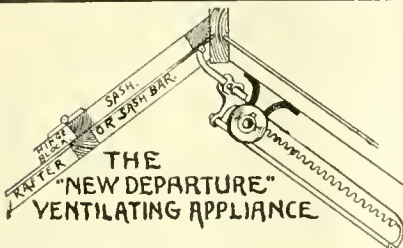
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EVANS' IMPROVED Challenge Ventilating Apparatus

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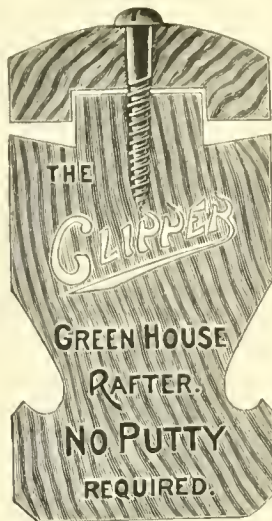
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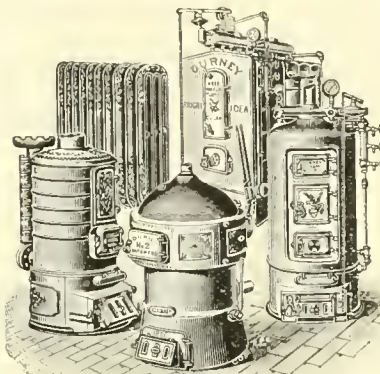


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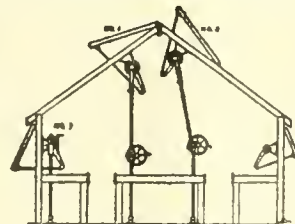
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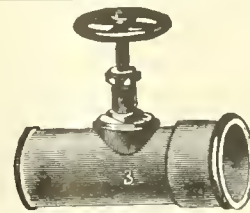
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They will pump water from any source and force it anywhere. Any kind of fuel can be used. Address, DELAMATER IRON WORKS, 467 West Broadway, New York City.



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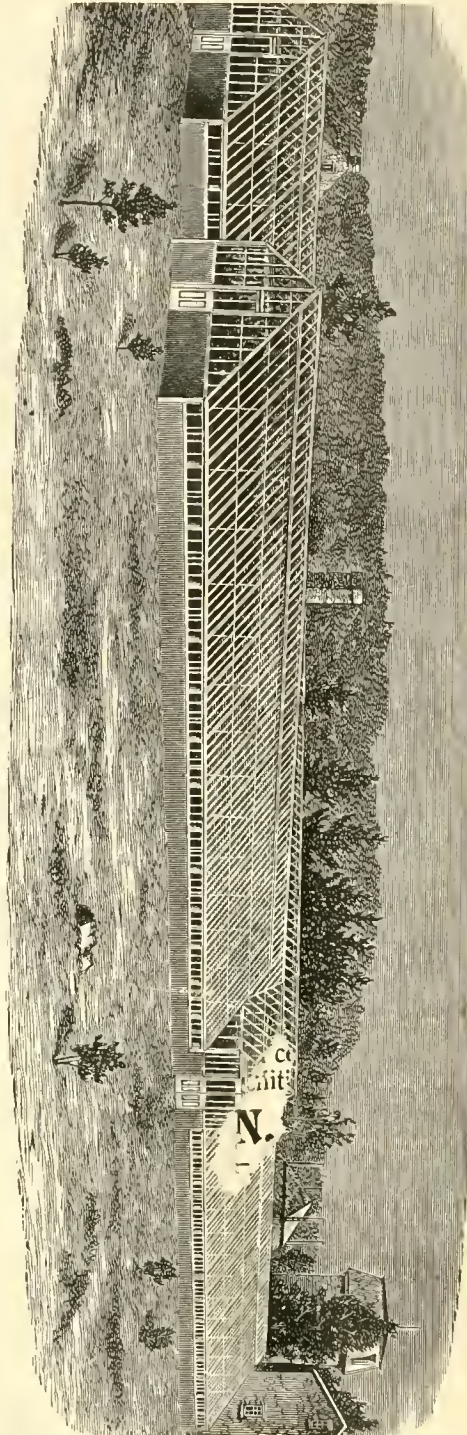
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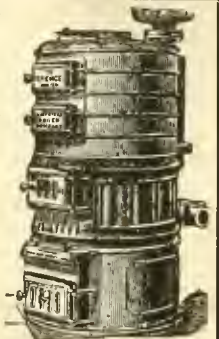
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